4th Annual Training

REBUILDING OUR WOUNDED

Naval Medical Center San Diego sponsors

C.A.R.E.

Comprehensive Aesthetic Restorative Effort

SUMMIT 2013

BUMED APPROVED

Breakthrough Multidisciplinary Care for the Wounded Warrior and Traumatically Injured

December 5 - 8, 2013 San Diego, California

Support provided by The Gene Vance Jr. Foundation

6th Continuing Medical Education Presentation and Second Exhibitor Event

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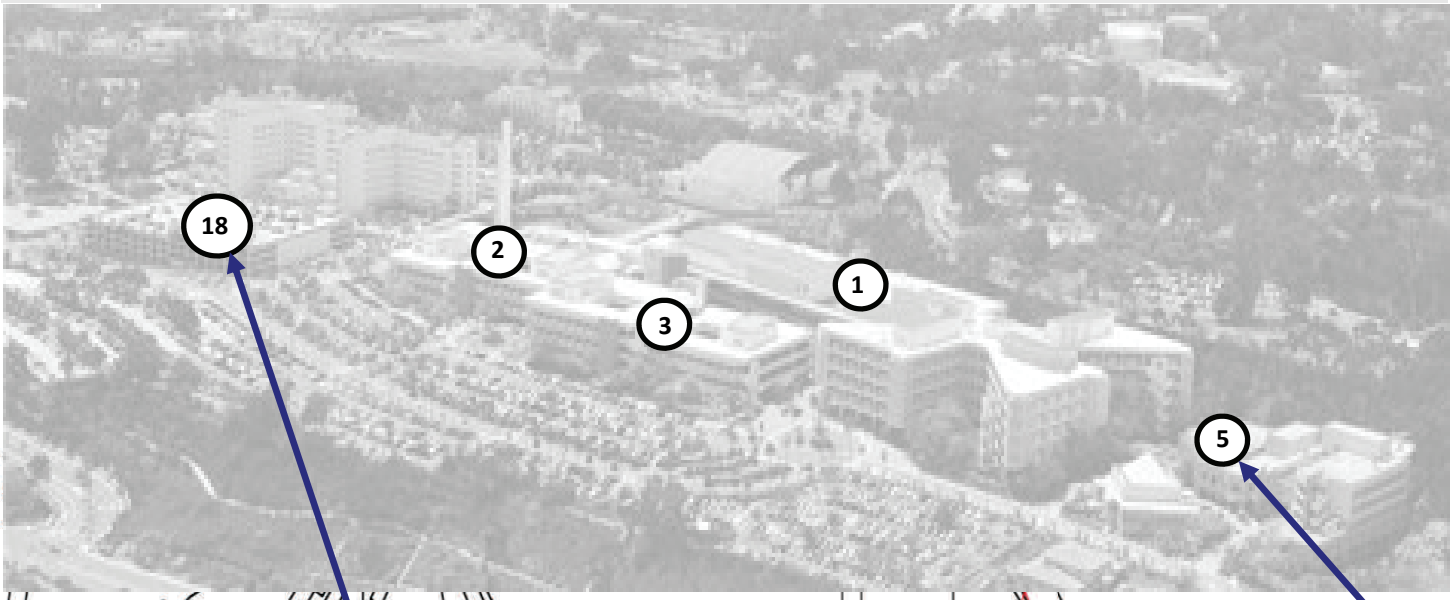
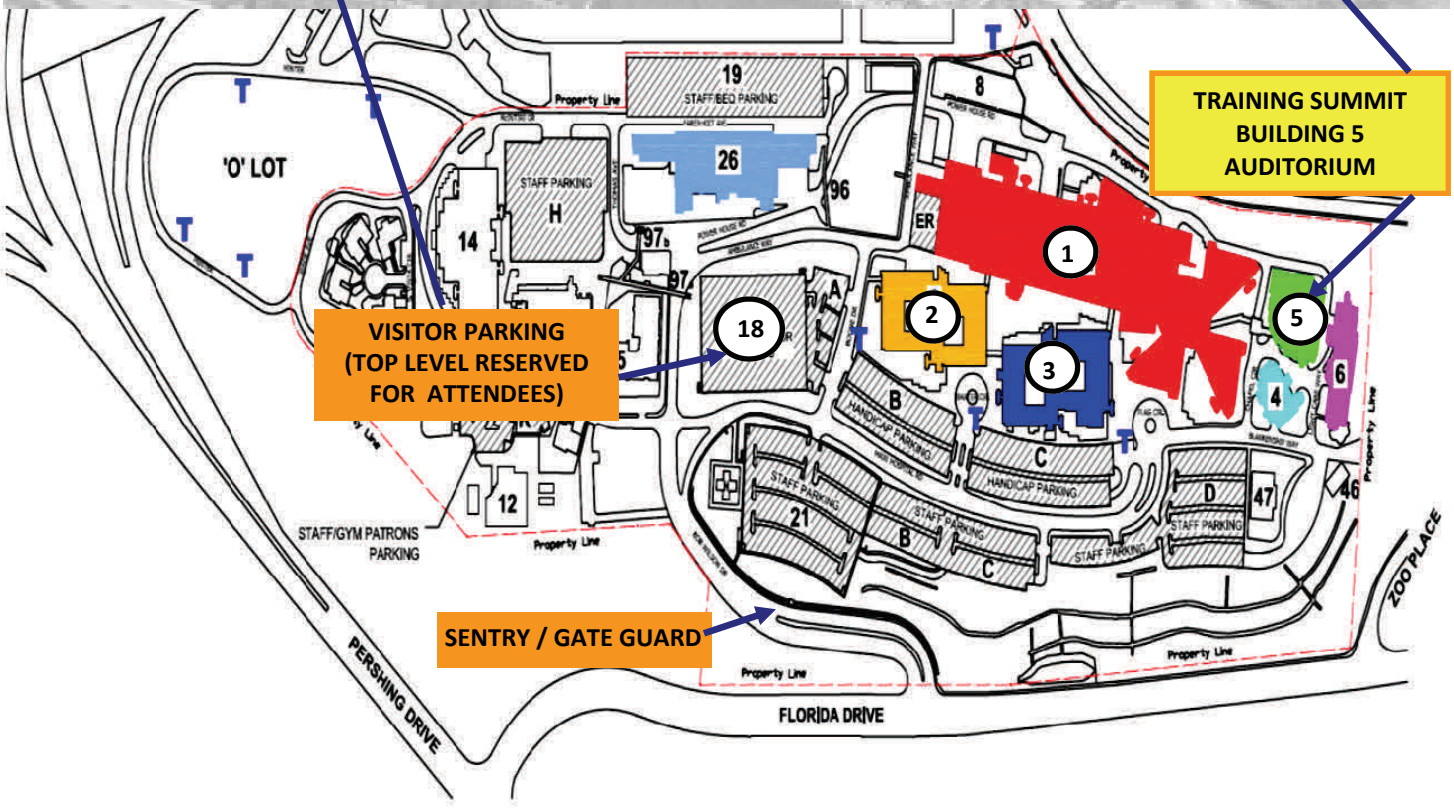
NAVAL MEDICAL CENTER SAN DIEGO





NAVAL MEDICAL CENTER SAN DIEGO (NMCSD) presents the

C.A.R.E. 4

COMPREHENSIVE AESTHETIC RESTORATIVE EFFORT TRAINING

SUMMIT 2013

Breakthrough MULTIDISCIPLINARY CARE for The Wounded Warrior and Traumatically Injured

December 5-8, 2013

Includes advances in

MILITARY SYSTEM OF TRAUMA CARE AND EARLY WOUND MANAGEMENT
SURGICAL RECONSTRUCTION/TRANSPLANTATION/RESTORATION
FACE TRANSPLANTATION WITH MOCK TRANSPLANT
HAND TRANSPLANTATION WITH MOCK TRANSPLANT
TRANSPLANT IMMUNOLOGY
SKELETAL RECONSTRUCTION
TARGETED MUSCLE RE-INNERVATION
REGENERATIVE MEDICINE
STEM CELL TRANSPLANTION
LASER AND SURGICAL SCAR REVISION/REMODELING
AMPUTEE CARE
PROSTHETICS
TRAUMATIC BRAIN INJURY
ADJUNCTIVE AND CUTTING EDGE TREATMENTS

Healthcare providers, administrators, educators and scholars spanning all disciplines seeking to improve therapy and research in both military and civilian medicine are encouraged to attend.

SUPPORT PROVIDED BY

THE GENE VANCE JR FOUNDATION

6th Volunteer Member Presentations and 2nd Technology & Therapies Exhibitions

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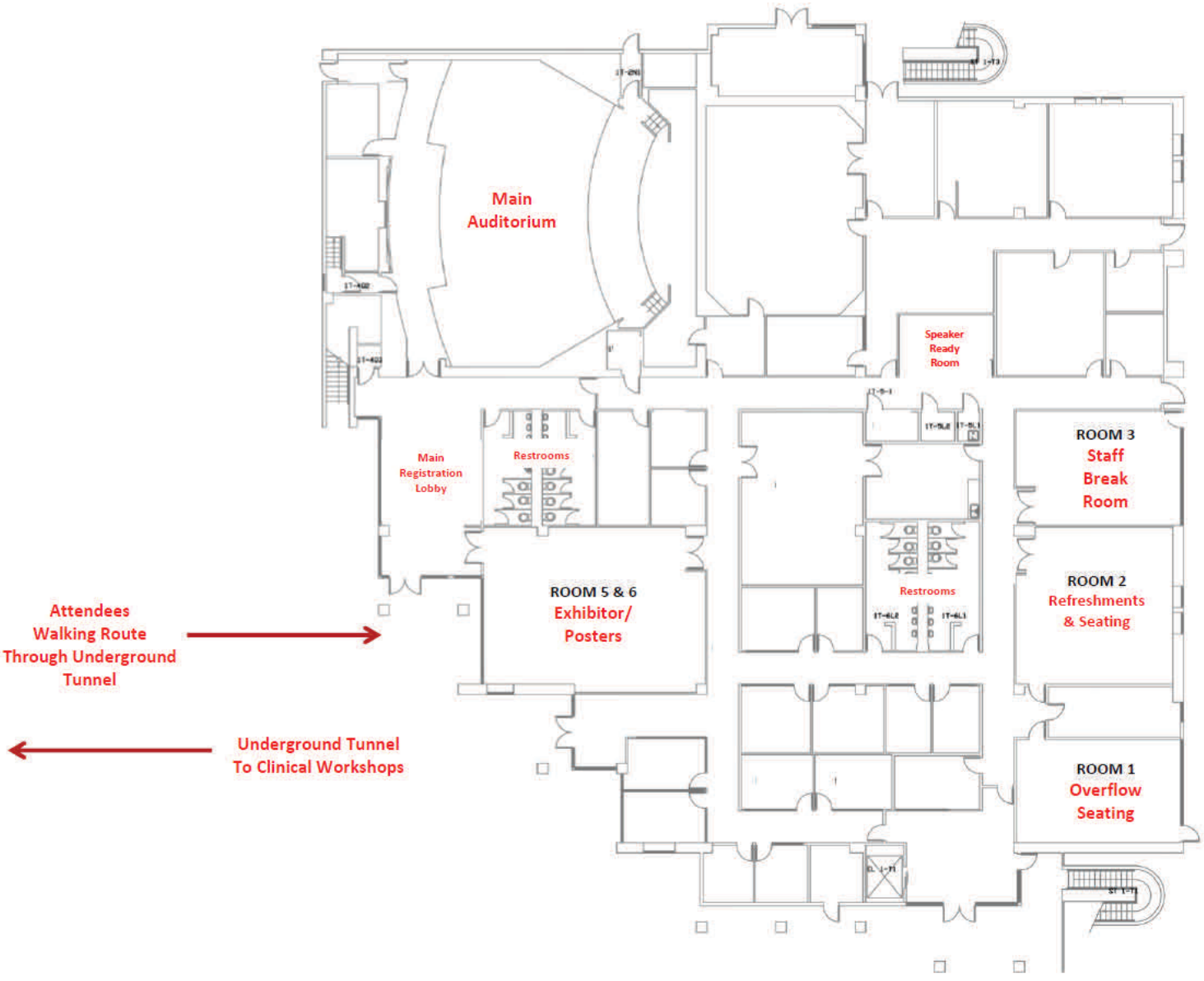
TRAINING SUMMIT BLUEPRINT
BUILDING 5



SUMMIT 2013

Naval Medical Center San Diego (NMCSD)
C.A.R.E. 4 SUMMIT 2013
Comprehensive Aesthetic Restorative Effort
with Support provided by The Gene Vance Jr. Foundation

December 5 - 8, 2013

Pride of Navy Medicine

LEADING EDGE INNOVATION

Naval Medical Center San Diego (NMCSD) is the nation's most technologically advanced Naval **Medical Treatment Facility (MTF)** .

Renowned as a thriving hub of military health care it is a leader in the medical field and a major teaching and research center having played a role in the history of San Diego for more than 80 years, home to the largest concentration of US military in the world with over one-third of the combat power of the U.S. Marine Corps.

C.A.R.E. is a breakthrough program created by NMCSD's USN **CAPT Craig Salt** to help wounded warriors both physically and mentally. It has provided treatment to more than 400 traumatically wounded, ill and injured active duty service members since its inception at NMCSD in August 2010 and offers active duty servicemen and women the most innovative comprehensive, multidisciplinary military/civilian care possible.

The Gene Vance Jr. Foundation (GVJF) all volunteer Continuing Medical Education and Training presentations at the **C.A.R.E. 4 SUMMIT** offer a vital opportunity to further optimize readiness and skills essential to dramatic increases in quality of life for the war wounded.

Featuring remarkable, breakthrough multidisciplinary advances in medical science, the GVJF program was implemented in 2009 by the **Department of the Navy of the United States of America (DON) Bureau of Medicine and Surgery (BUMED),** the headquarters command for Navy Medicine under the leadership of the United States Navy Surgeon General.

The innovative program is being developed by the Foundation in collaboration with NMCSD's **United States Navy C.A.R.E. (Comprehensive Aesthetic Restorative Effort)** and continues to elevate the standard of care across the entire continuum. 2013 marks significant growth of the concept with new introductions in the form of state-of-the-art cadaver workshops and the second technology and therapies exhibition showcasing important advances in healthcare.

The Gene Vance Jr. Foundation's "OPERATION TOTAL RESTORATION" mirrors C.A.R.E. and is part of the C.A.R.E. National Program since its inception. To date, the Gene Vance Jr. Foundation for Catastrophically Injured War Veterans is the largest provider of privately sponsored support services to C.A.R.E.

The expanded forum creates an unsurpassed opportunity for select innovators and leading companies to demonstrate and showcase their support for severely wounded soldiers and the work of the Gene Vance Jr. Foundation in concert with C.A.R.E.

Visit The GENE VANCE Jr. FOUNDATION
2nd TECHNOLOGY and THERAPIES EXHIBITIONS

care@genevancejr.org www.genevancejr.org

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THE GENE VANCE Jr. FOUNDATION EXHIBITIONS 2013

LEADING EDGE INNOVATION

IN MEDICAL TECHNOLOGY and THERAPY

OPERATION TOTAL RESTORATION

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Booth # 1

Healing Through Regenerative Medicine

ACell's patented ECM devices address important clinical needs, while providing safe, effective, economical and therapeutic outcomes to the wound care and surgical communities. These devices, trademarked as MatriStem®, are comprised of naturally-occurring porcine urinary bladder matrix (UBM). The products are non-crosslinked, completely resorbable, acellular, and feature naturally-occurring collagens and an epithelial basement membrane surface that is not available in synthetic materials. MatriStem completely incorporates into the surrounding tissue during the healing process and leaves new tissue where scar tissue formation is normally expected. The result is constructively remodeled, site-specific tissue for a variety of medical procedures.

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AxoGen®

Nerve Regeneration

Booth # 7

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AxoGen is a leading regenerative medicine company dedicated to advancing the science and commercialization of peripheral nerve repair solutions. AxoGen's products offer a full suite of surgical nerve repair solutions including Avance® Nerve Graft, the only off-the-shelf commercially available processed nerve allograft for bridging severed nerves without the comorbidities associated with a second surgical site, AxoGuard® Nerve Connector, a porcine submucosa ExtraCellular Matrix (ECM) coaptation aid for tensionless repair of severed nerves, and AxoGuard® Nerve Protector, a porcine submucosa ECM product used to wrap and protect injured peripheral nerves and reinforce the nerve reconstruction while preventing soft tissue attachments.

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www.AxoGenInc.com **email:** CustomerCare@AxoGenInc.com

Checkpoint Surgical®

Booth # 5

Advanced Neurodevices

CHECKPOINT SURGICAL® was formed in 2009 to provide physicians with medical devices to locate, evaluate and protect nerves and muscles during surgery for better patient outcomes. The CHECKPOINT® hand-held stimulator has a wide range of parameters fully controlled by the surgeon to activate nerves and muscles at varying depths and through surrounding tissue (Regional Stimulation) enabling the surgeon to make decisions with confidence.

The CHECKPOINT® Stimulator/Locator provides the surgeon with a reliable method of applying electrical stimulation to exposed motor nerves and muscle to evaluate nerves during surgery.

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22901 Millcreek Blvd. | Suite 110 | Cleveland, OH | 44122 **Paul Hargis, Director of Sales - Cell: 440-390-0841**
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COURSE OVERVIEW & OBJECTIVES

The summit will be an excellent opportunity to learn and teach about the treatment of traumatic injuries from a variety of perspectives. Recent advances in laser technology and treatment techniques have made this an exciting time to practice in this area, and patients are experiencing unprecedented functional and cosmetic improvements. We plan to have presentations from a variety of luminaries in the field, but practical demonstrations will also form a large part of the agenda.

Ultimately, we would like to provide key personnel from military centers across the country and across all services with knowledge and practical training in the treatment of traumatic injuries. However, participants will include experts from a variety of disciplines in both the military and civilian arena. Through sharing experiences and ideas in a relatively intimate environment, we hope to further advance our techniques, cooperation, and research in this area.

After completion of summit, participants will be able to:

1) Discuss new treatment paradigms with lasers and embrace technologies such as noninvasive treatment.
2) Discuss the development of new surgical treatment of individuals suffering with severe bodily disfigurement as a result of traumatic injuries.

** Naval Medical Center San Diego (NMCSD) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

**Naval Medical Center San Diego designates this live activity for a maximum of 32 AMA PRA Category 1 Credits™ Physicians should claim only credit commensurate with the extent of their participation in the activity.

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LEADING EDGE INNOVATION

IN MEDICAL TECHNOLOGY and THERAPY

OPERATION TOTAL RESTORATION

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bioCorneum® +

advanced **SCAR SUPERVISION** plus **SPF30**

Booth # 4

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Enaltus, Inc. is a world leader in the global scar treatment market. Enaltus's innovative products include **bioCorneum® +** Advanced Formula Scar Gel, a proprietary silicone technology used to prevent abnormal scarring after surgical and aesthetic procedures. bioCorneum® + is the first and only 100% silicone scar product with SPF cleared by the FDA for scar management.

bioCorneum® + ***The perfect complement to a perfect procedure.***

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FIBROCELL SCIENCE

Booth # 10

GOLD SPONSOR

Fibrocell Science, Inc. is an autologous cell therapy company focused on the development of innovative products for aesthetic, medical and scientific applications. Fibrocell Science is committed to advancing the scientific, medical and commercial potential of autologous skin and tissue, as well as its innovative cellular processing technology and manufacturing excellence.

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Michele McHugh-Mazzatta, Vice President, Sales **email:** mmchugh_mazzatta@fibrocellscience.com

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THE GENE VANCE JR. FOUNDATION OPERATION TOTAL RESTORATION

CARE, HOPE AND HEALING TO HELP THE WOUNDED CONQUER UNIMAGINABLE ODDS

Booth # 11

TM TM

The Gene Vance Jr. Foundation (GVJF) is a privately funded, non-profit, non-partisan 501(c)(3) established to provide highly specialized volunteer healthcare support to military medicine, uniquely wounded soldiers and the catastrophically injured. A widely respected world class resource of excellence, it has symbolized the spirit of a grateful nation since its inception in 2005. Focused on **leading edge innovative solutions** and **committed to optimal healthcare** of wounded warriors returning from the US led Global War on Terror, it provides top tier support to the United States Department of Defense Military Health System since 2009.

Operation Total Restoration (OTR) is an **ALL VOLUNTEER FREE PUBLIC SERVICE** provided by the Foundation to rebuild and heal the soldier. It mirrors and is part of the **US Navy C.A.R.E.** national program to dramatically increase quality of life for the wounded. Primary financial support has come from the Foundation's founder who is leading the development. Presently, 100% of funding is utilized for program expenses.

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Michael M.J. Minc | Chairman, CEO, Founder chairman@genevancejr.org **www.genevancejr.org** **www.budsboldbrew.com**

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bioCorneum®+

advanced **SCAR SUPERVISION** plus **SPF30**

* bioCorneum®+ is a device registered under Kelo-cote® 510(k).

CLINICAL WORKSHOP ROTATION

STATION I

Face Transplant

Dr. Siemionow

Cadavers 1 & 2

Thurs 1500-1700		Friday 1530-1730	
1600-1620	**A**	1530-1550	**A**
1620-1640	**B**	1550-1610	**B**
1640-1700	**C**	1610-1630	**C**
1700-1720	**D**	1630-1650	**D**
1720-1740	**E**	1650-1710	**E**
1740-1800	**F**	1710-1730	**F**

STATION II

"Super-thin" Flap for Scar Contractures of the Face and Neck

Also, Serratus / Latissimus Flap

Dr. Vinh

Cadaver 3 (prone)

Thurs 1500-1700		Friday 1530-1730	
1600-1620	**F**	1530-1550	**F**
1620-1640	**A**	1550-1610	**A**
1640-1700	**B**	1610-1630	**B**
1700-1720	**C**	1630-1650	**C**
1720-1740	**D**	1650-1710	**D**
1740-1800	**E**	1710-1730	**E**

STATION III

Hand Reconstruction

Finger: Cross finger flap, Atasoy, Kutler, Thenar flap
Thumb: Littler, Moberg, Free toe
Hand: Groin flap, Radial forearm flap, Posterior Interosseous flap, Lateral arm flap

Dr. Lachica

Cadaver 4

Thurs 1500-1700		Friday 1530-1730	
1600-1620	**E**	1530-1550	**E**
1620-1640	**F**	1550-1610	**F**
1640-1700	**A**	1610-1630	**A**
1700-1720	**B**	1630-1650	**B**
1720-1740	**C**	1650-1710	**C**
1740-1800	**D**	1710-1730	**D**

STATION IV

Face Reconstruction

Nose: Bilobe flap, Rhomboid flap, Nasolabial flap, Forehead flap
Cheek: Mustarde Cheek flap, Rhomboid flap
Lip: Abbe flap, Webster modification
Mandible: Free Fibula
Neck: Pectoralis major flap, Deltopectoral flap

Dr. Salt

Cadaver 5

Thurs 1500-1700		Friday 1530-1730	
1600-1620	**D**	1530-1550	**D**
1620-1540	**E**	1550-1610	**E**
1640-1700	**F**	1610-1630	**F**
1700-1720	**A**	1630-1650	**A**
1720-1740	**B**	1650-1710	**B**
1740-1800	**C**	1710-1730	**C**

STATION V

Targeted Muscle Reinnervation

Short residual limb (serratus/pectoralis)
Long residual limb (biceps/triceps)

Dr. Kroonen, Dr. Nanos, Dr. Carlsen

Cadaver 6

Thurs 1500-1700		Friday 1530-1730	
1600-1620	**C**	1530-1550	**C**
1620-1640	**D**	1550-1610	**D**
1640-1700	**E**	1610-1630	**E**
1700-1720	**F**	1630-1650	**F**
1720-1740	**A**	1650-1710	**A**
1740-1800	**B**	1710-1730	**B**

STATION VI

Hand Transplantation

Upper extremities x 2

Dr. Lee, Dr. Shores, Dr. Kumar

Thurs 1500-1700		Friday 1530-1730	
1600-1620	**B**	1530-1550	**B**
1620-1640	**C**	1550-1610	**C**
1640-1700	**D**	1610-1630	**D**
1700-1720	**E**	1630-1650	**E**
1720-1740	**F**	1650-1710	**F**
1740-1800	**A**	1710-1730	**A**

THURSDAY, DECEMBER 5, 2013

7:00-8:00 **Registration / Morning Refreshments / Exhibits**

8:00-8:30 **Introduction and Welcome Remarks**

CAPT Craig Salt, M.D., Founder and Director, Comprehensive Aesthetic Recovery Effort (C.A.R.E.); Department of Plastic Surgery, Naval Medical Center San Diego

RDML Bruce Gillingham, M.D., Commander, Naval Medical Center San Diego and Navy Medicine West

VADM Matthew Nathan, M.D., Surgeon General of the Navy

Michael M.J. Minc Founder, Gene Vance Jr. Foundation

CDR Peter Shumaker, M.D., Program Director, 4th Annual C.A.R.E. Training Summit; Chairman, Dermatology, NMCSD; Clinical Associate Professor of Dermatology, Uniformed Services University of the Health Sciences

Military System of Trauma Care and Early Management

8:30-9:30 **Patient Testimonials, Part 1**

9:30-10:00 ***Military System of Trauma Care: Level 1,2***
Early Wound Management
Dr. Robert Sheridan (COL, USAR), Assistant Chief of Staff, Shriner's Hospital for Children; Associate Professor of Surgery, Harvard Medical School

10:15-10:30 ***Military System of Trauma Care: Level 3***
CDR Kevin Kuhn, M.D., Department of Orthopedics, Naval Medical Center San Diego

10:30-10:45 **Break / Exhibits**

10:45-11:15 ***Scar Physiology***
Dr. Mayer Tenenhaus, Clinical Professor of Surgery, Division of Plastic Surgery, UCSD Burn Center

Surgical Reconstruction and Scar Revision

11:15-11:45 ***Principles of Surgical Traumatic Scar Revision***
Dr. Matthias Donelan, Chief of Plastic Surgery, Shriner's Hospital for Children; Associate Clinical Professor of Surgery, Harvard Medical School

11:45-12:00 **Panel Discussion**

12:00-1:00 **Lunch / Exhibits**

THURSDAY, DECEMBER 5, 2013

1:00-1:30 ***Upper Extremity Soft Tissue Reconstruction***
Dr. Kodi Azari, Chief, Section of Reconstructive Transplantation; Co-Director, Operation Mend Program; Associate Professor, Orthopedic Surgery, Plastic Surgery, and Transplantation Surgery David Geffen School of Medicine at UCLA

1:30-2:00 ***Principles of Hand Reconstruction***
Dr. Roberto Lachica, Associate Professor of Surgery, University of Tennessee Health Sciences Center

2:00-2:15 ***Dorsal Double Perforators "Super-thin" Free Flap: A New Choice in Neck and Face Scar Contracture Reconstruction***
Dr. Vu Quang Vinh, Vice Chair, Department of Plastic Surgery, Vietnam Institute of Burns, Hanoi

2:15-2:30 **Break / Exhibits**

2:30-3:00 ***Post-Traumatic Cranio-Facial Reconstruction***
Dr. Anand Kumar, Assistant Professor of Plastic Surgery, John Hopkins University

3:00-3:30 ***Flap Options for Facial Reconstruction***
CAPT Craig Salt, M.D., Founder and Chairman, Project C.A.R.E.; Department of Plastic Surgery, Naval Medical Center San Diego

3:00-4:00 ***Hand Transplant (Closed Clinical Workshop)***
CDR Michelle Arnold, M.D., Department of Otolaryngology, Naval Medical Center San Diego

3:30-3:45 **Panel Discussion**

3:45-4:00 **Break / Exhibits**

4:00-6:00 **Concurrent Clinical Workshops / Research Poster Presentation / Optional C5 Tour**
(Sign-up at Registration)

Prosections, Group 1 Cadaver lab (Building 1-Ground Floor)
Session Coordinators: CAPT Craig Salt, M.D.; CDR Leo Kroonen, M.D.; Robin Caballa, PA-C
Faculty: Dr. Kodi Azari; Dr. Steven Bernard; Dr. Anand Kumar; Dr. Roberto Lachica; Dr. W.P. Andrew Lee; Dr. Francis Papay; Dr. Jaimie Shores; Dr. Maria Siemionow; Dr. Vu Quang Vinh

Surgical Scar Revision, Group A (Limited to Select Trainees and Staff Members), Simulation lab (Building 1-Ground Floor)
Session Directors: Dr. Matthias Donelan; CDR Curtis Gaball M.D.; CDR Michelle Arnold, M.D.; LT Col Jose Barrera, M.D.

NMCSD Research Poster Presentations (Building 5, Room 5 & 6)
Coordinators: Dr. John D. Malone; Dr. Ron Jackson; Elisea Avalos

4:00-4:30 **C5 Tour, Group 1** (Building 3 - 1st Floor)

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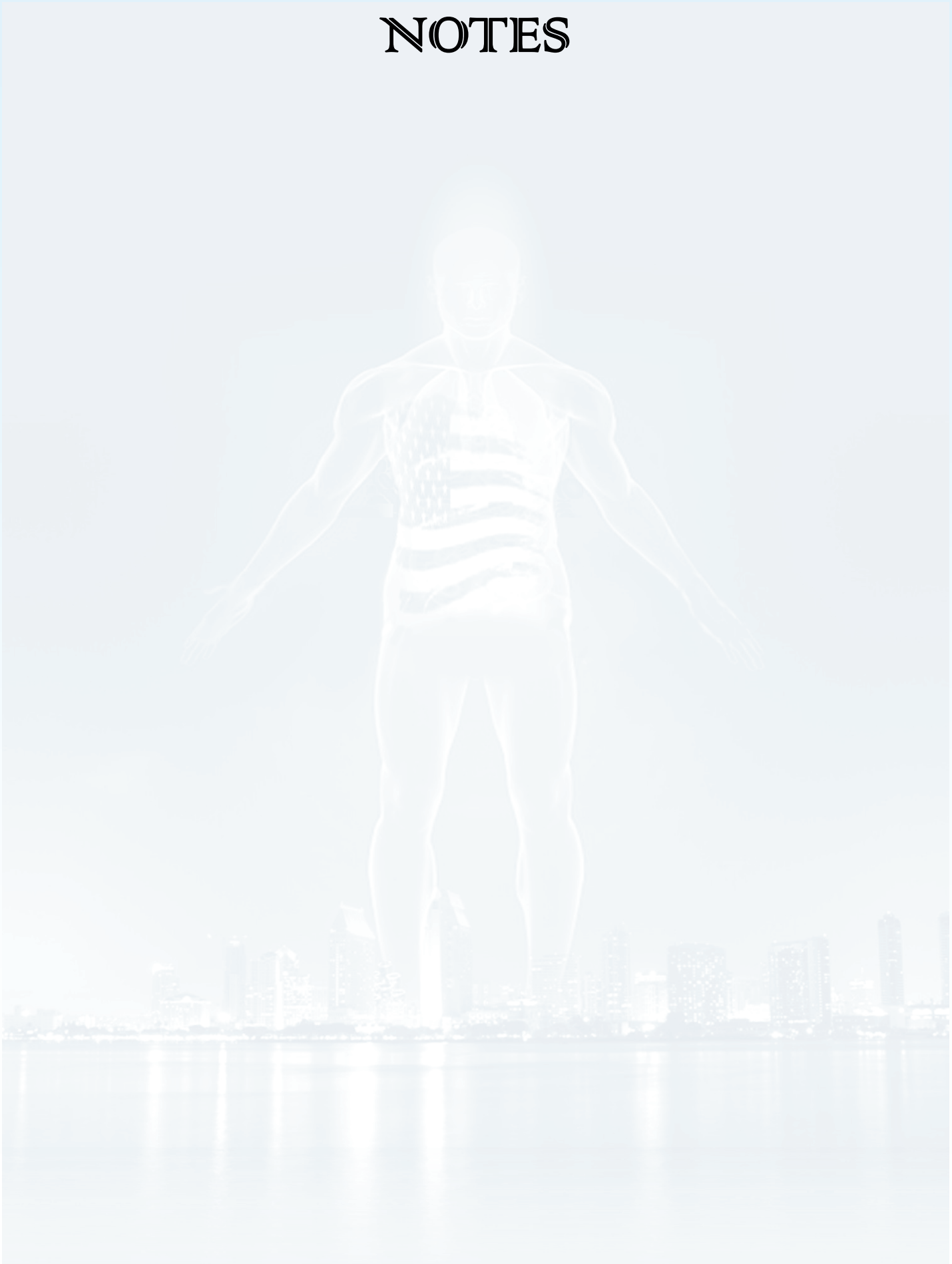

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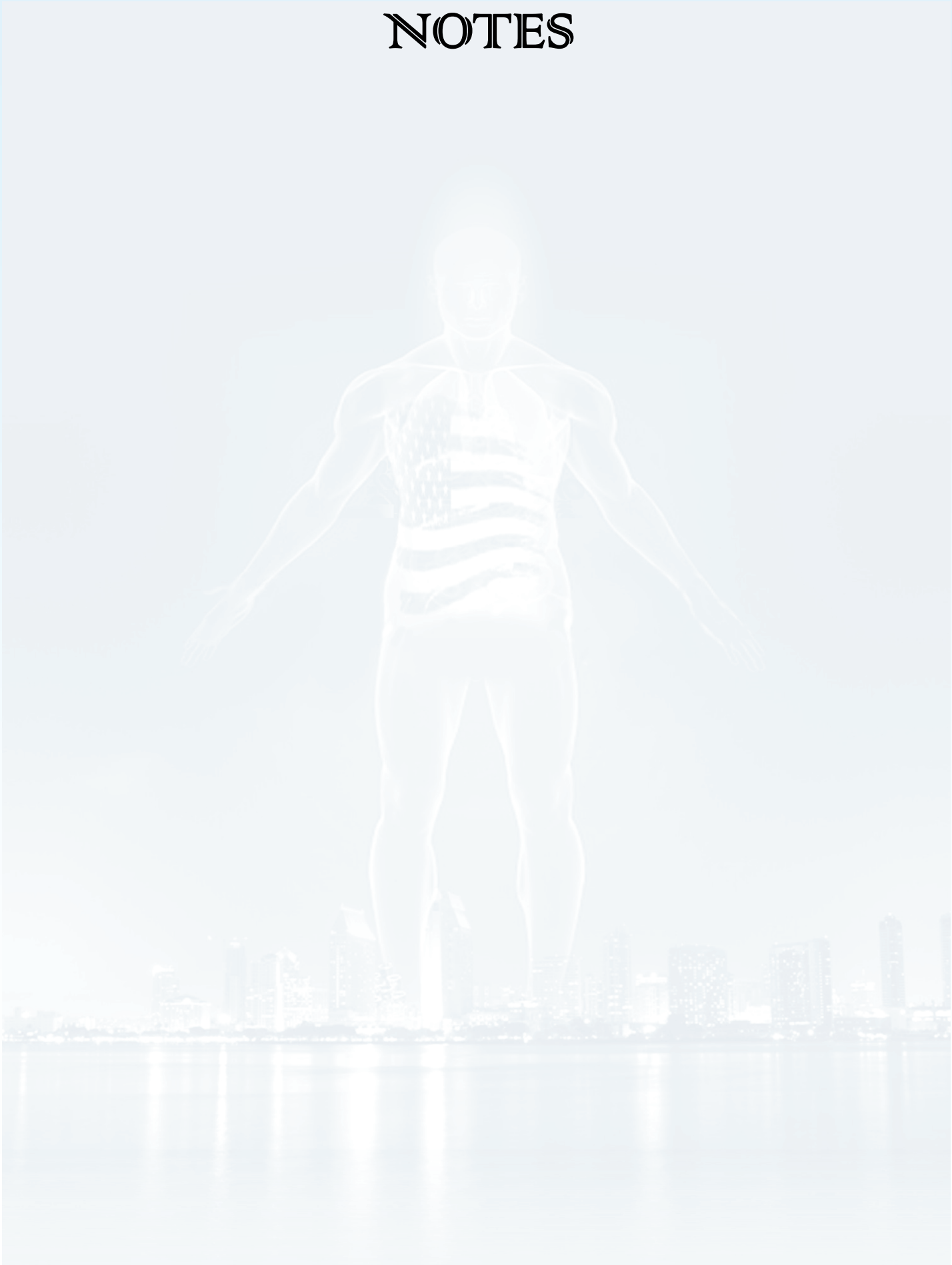

FRIDAY, DECEMBER 6, 2013

7:30-8:00 **Registration / Morning Refreshments / Exhibits**

8:00-8:15 **Welcome Remarks / Objectives**

Transplantation

8:15-8:45

Face Transplantation
Dr. Maria Siemionow, Head of Microsurgery Training; Director of Plastic Surgery Research, Cleveland Clinic

8:45-9:15

Hand Transplantation
Dr. W. P. Andrew Lee, Professor and Chairman, Department of Plastic and Reconstructive Surgery, Johns Hopkins School of Medicine

9:15-9:45

Transplant Immunology
Dr. Elaine Reed, Vice Chair, Research Services; Director, Immunogenetics Center; Professor of Pathology, David Geffen School of Medicine, UCLA

9:45-10:00 **Break / Exhibits**

Targeted Muscle Re-innervation

10:00-11:30

Introduction to TMR
CDR Leo Kroonen, M.D., Hand and Microvascular Surgery, Department of Orthopedic Surgery, Naval Medical Center San Diego. Assistant Professor of Surgery, Uniformed Services University of the Health Sciences

Surgical Technique and the Mayo Experience
Dr. Brian T. Carlsen, Associate Professor of Plastic Surgery, Mayo Clinic School of Medicine

TMR for Combat-Related Upper Extremity Amputation
CDR George P. Nanos III, M.D., Hand and Microvascular Surgery, Department of Orthopedics, Walter Reed National Military Medical Center

Rehabilitation Associated With TMR
Kimberly Singer, Occupational Therapist, Comprehensive Combat Casualty Care Center (C5), Naval Medical Center San Diego

TMR Past, Present, and Future
Dr. Todd Kuiken, Director, Center for Bionic Medicine; Professor of PM&R, Biomedical Engineering, and Surgery, Northwestern University

11:30-12:00 **Panel Discussion**

FRIDAY, DECEMBER 6, 2013

12:00-1:00 **Lunch / Exhibits**

Regenerative Medicine

1:00-1:30 ***Nerve Regeneration with Polymer Tracking***
Dr. Paul Cederna, Chief, Section of Plastic Surgery; Professor of Plastic Surgery and Biomedical Engineering, University of Michigan Health System

1:30-2:00 ***Regenerative Therapies for Soft Tissue Reconstruction: Craniofacial and Limb***
Dr. J. Peter Rubin, University of Pittsburgh Medical Center Endowed Professor and Chair of Plastic Surgery

2:00-2:30 ***Stem Cell Transplantation***
Dr. Spencer Brown, Executive Director, Center for Innovation in Regenerative Medicine; Professor of Plastic Surgery, University of Pittsburgh Medical Center

2:30-3:00 ***Vascularized Bone Grafts in Orthopedic Surgery***
Dr. Alexander Y. Shin, Professor of Orthopedic Surgery and Director of the Hand Surgery Fellowship Program, Mayo Clinic

3:00-3:15 **Panel Discussion**

3:15-3:30 **Break / Exhibits**

3:30-5:30 **Concurrent Clinical Workshops / Research Poster Presentations / Optional C5 Tour**
(Sign-up at Registration)

Prosections, Group 2, Cadaver lab (Building 1-Ground Floor)
Session Coordinators: CAPT Craig Salt, M.D.; CDR Leo Kroonen, M.D.; Robin Caballa, PA-C
Faculty: Dr. Kodi Azari; Dr. Steven Bernard; Dr. Anand Kumar; Dr. Roberto Lachica; Dr. W.P. Andrew Lee; Dr. Francis Papay; Dr. Jaimie Shores; Dr. Maria Siemionow; Dr. Vu Quang Vinh.

Surgical Scar Revision, Group B (Limited to selected trainees and staff members), Simulation lab (Building 1-Ground Floor)
Session Directors: Dr. Matthias Donelan; CDR Curtis Gaball M.D.; CDR Michelle Arnold, M.D.; LT Col Jose Barrera, M.D.

NMCSD Research Poster Presentations, (Building 5, Room 5 & 6)
Coordinators: Dr. John D. Malone; Dr. Ron Jackson; Elisea Avalos

3:30-4:00 **C5 Tour, Group 2 (**Building 3-1st Floor)

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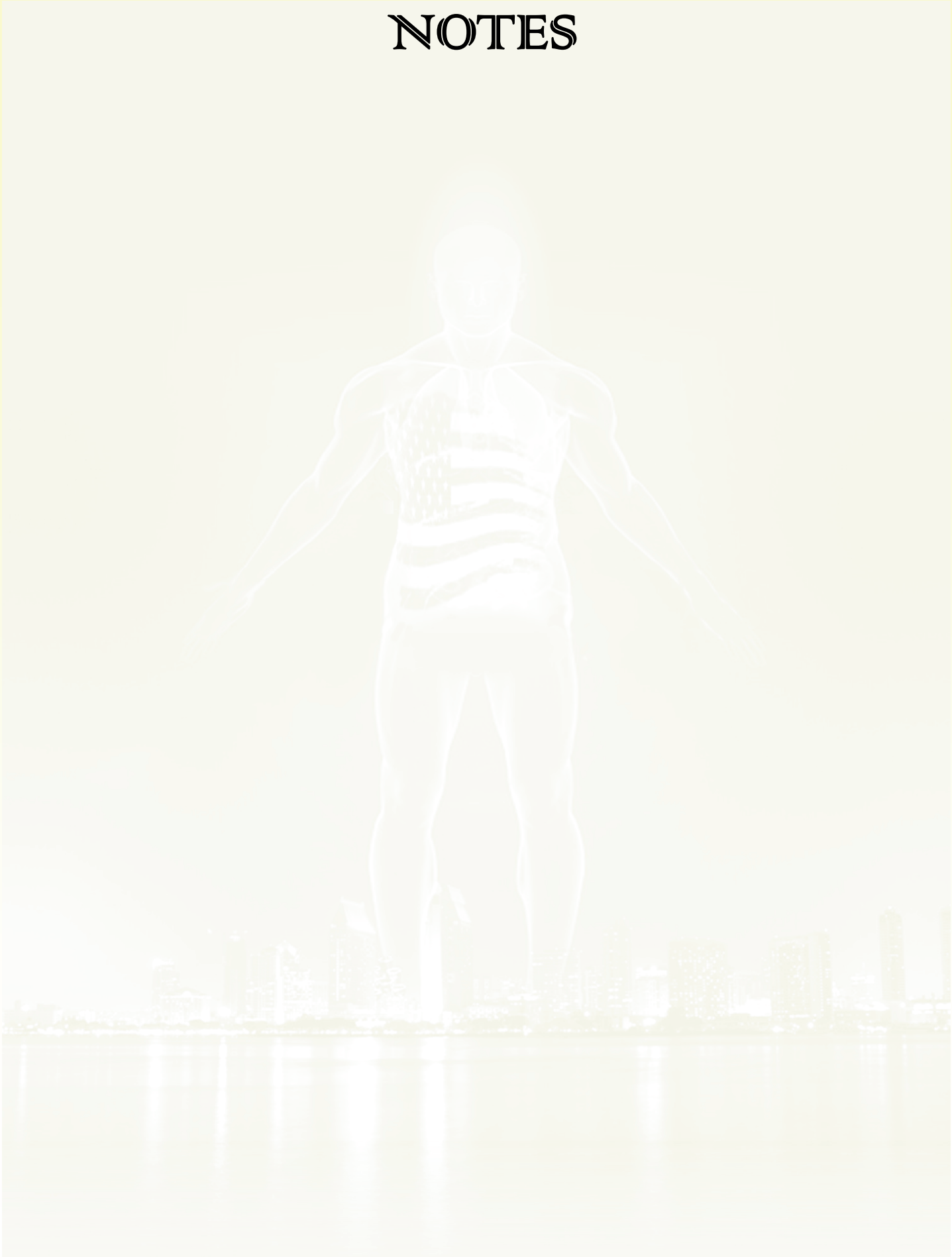

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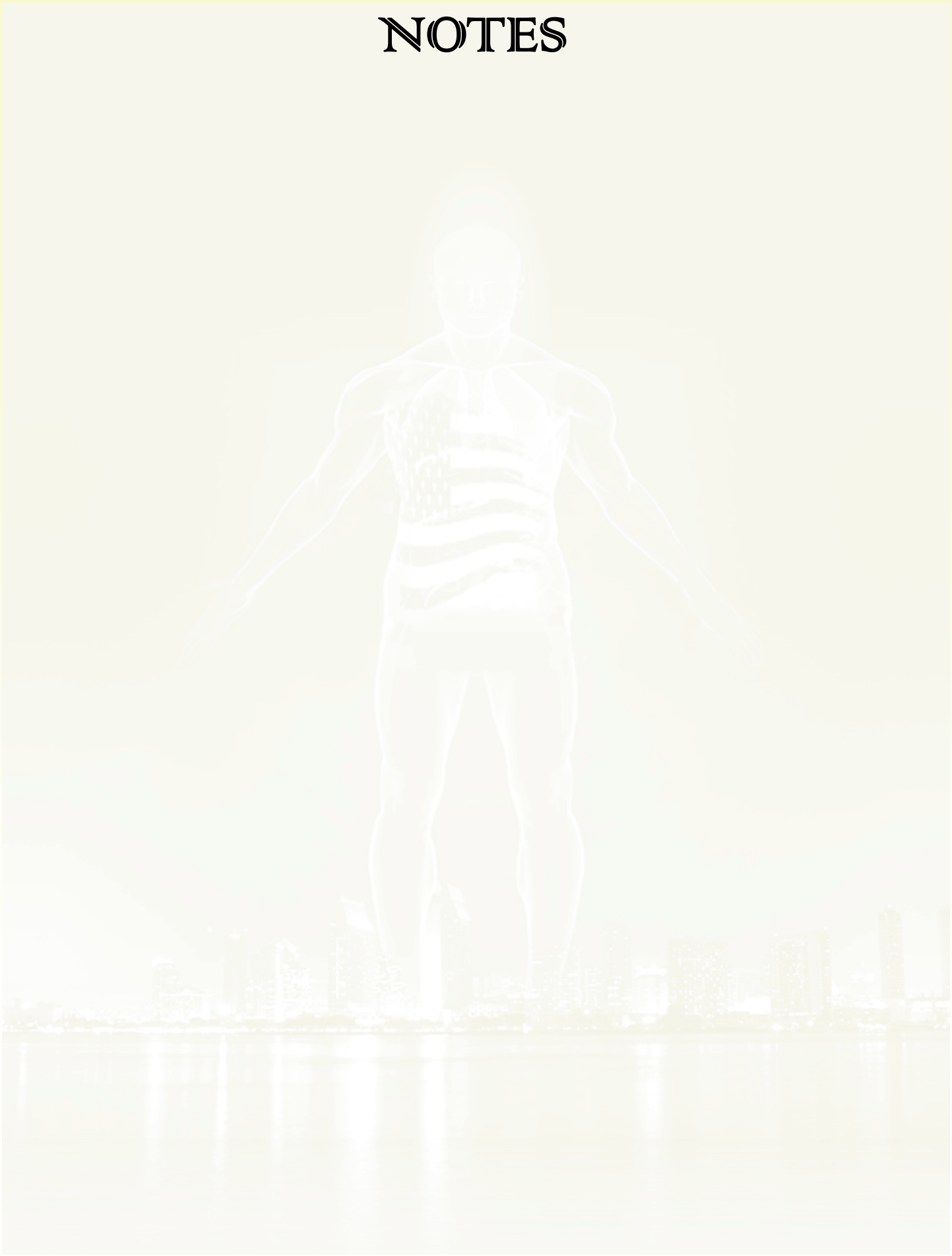

SATURDAY, DECEMBER 7, 2013

7:30-8:00 **Registration / Morning Refreshments / Exhibits**

8:00-9:00 ***NMCSD Case Presentations***
Patient Testimonials, Part 2

Moderators: CDR Peter Shumaker, M.D. & Dr. Nathan Uebelhoer (Dermatology); CDR Leo Kroonen, M.D. (Orthopedic Hand Surgery); CDR Curtis Gaball, M.D. (Facial Plastic Surgery)

Laser Scar Revision

Moderators: CDR Peter Shumaker, M.D. and Dr. Nathan Uebelhoer

9:00-9:30 ***Laser Tissue Interactions***
CAPT (Ret) E. Victor Ross, M.D., Director of Laser and Cosmetic Dermatology, Scripps Clinic, San Diego, CA

9:30-10:00 ***Histopathologic Response to Laser Treatment***
Dr. David Ozog, Department of Dermatology, Henry Ford Hospital, Detroit,, MI

10:00-10:15 **Break / Exhibits**

10:15-10:30 **Laser Scar Resurfacing Video Demonstration**

10:30-11:30 ***Emerging Procedural Therapies***
Dr. Jill Waibel, Dermatology and Dermatologic Surgery, University of Miami Miller School of Medicine

Dr. R. Rox Anderson, Director, Wellman Center for Photomedicine; Professor of Dermatology, Harvard Medical School

11:30-11:45 ***Pediatric Laser Scar Revision***
Dr. Andrew Krakowski, Director, Kid's Scar Treatment and Revision (S.T.A.R.) Program; Assistant Clinical Professor of Pediatrics and Dermatology, Rady Children's Hospital, University of California, San Diego

11:45-12:15 **Panel Discussion**

1215-1:15 **Lunch / Exhibits**

SATURDAY, DECEMBER 7, 2013

Traumatic Brain Injury

1:15-2:45

A System of TBI Care and Evaluation and Management of Outpatient TBI
LCDR Josh Duckworth, M.D., Department of Neurology, Naval Medical Center San Diego. Medical Director, Defense Veterans Brain Injury Program. Assistant Professor Neurology, Uniformed Services University of the Health Sciences

Inpatient TBI Management
Dr. Navaz Karanjia, Director, Neurocritical Care; Assistant Professor for Neurosciences, UCSD

2:45-3:00 **Panel Discussion**

3:00-3:15 **Break / Exhibits**

Focus on Amputee Care

3:15-3:45

Current Strategies and Challenges
COL (Ret) John Shero, Director, DoD-VA Extremity Trauma & Amputation Center of Excellence (EACE)

3:45-4:15

Revolutionizing Prosthetics
Justin Manzo, DARPA/DSO

4:15-4:45

Skin Issues in Amputees: Strategies to Avoid Prosthetic Abandonment
LT COL Jon Meyerle, M.D., Chief, Immunodermatology, Walter Reed National Military Medical Center; Assistant Professor, Department of Dermatology, USUHS

4:45– 5:00

NMCSD Experience
Brian Zalewski, Comprehensive Combat Casualty Care Center (C5), Naval Medical Center San Diego

4:45-5:15 **Panel Discussion**

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SUNDAY, DECEMBER 8, 2013

7:30-8:00 **Registration / Morning Refreshments**

8:00-9:00 ***Deciphering the Alphabet Soup of DoD Research***
Panel: Dr. John D. Malone(Moderator); Dr. Rox Anderson; Mariliz Verzosa

9:00-10:00 ***"Expeditionary" Experience in Scar Treatment***
Panel: CDR Peter Shumaker, M.D. (Moderator);
CDR Douglas Winstanley, D.O.; Dr. Rox Anderson; Dr. Vu Quang Vinh

10:00-10:15 **Break / Exhibits**

10:15-10:45 ***Combining Laser and Surgical Revision for Traumatic and Surgical Scars***
LT Col Jose Barrera, M.D., Chief, Otolaryngology Service and Chief, Plastic and Reconstructive Surgery, San Antonio Military Medical Center

10:45-12:00 **Unknowns and Case Discussion (Faculty)**

12:00 **CLOSING REMARKS**

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Jonathan Yip, Sales Administration

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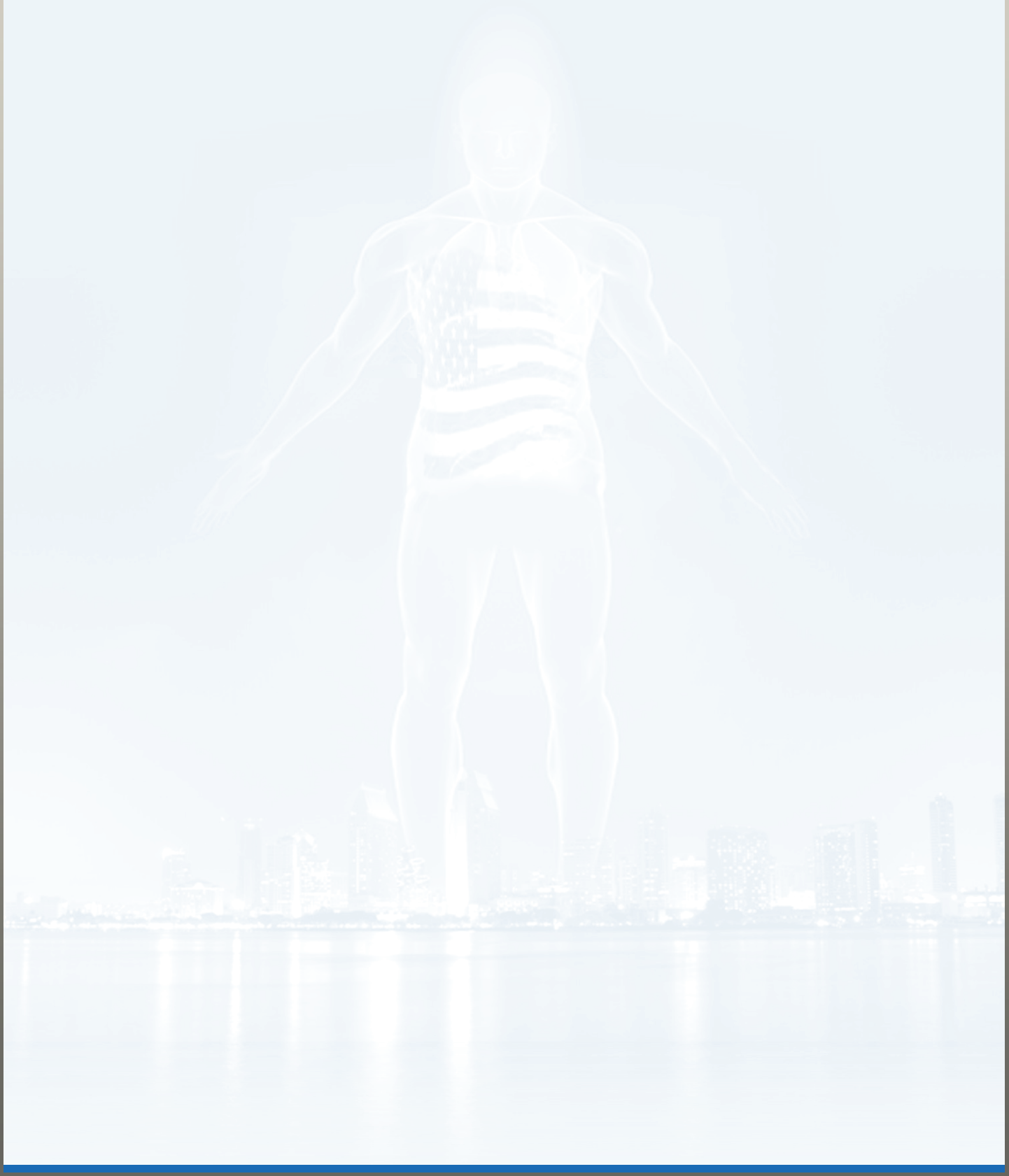

Michael M. J. Minc

THE GENE VANCE JR. FOUNDATION

OPERATION TOTAL RESTORATION

BOARD OF DIRECTORS

Mr. Michael Minc

Founder
Gene Vance Jr. Foundation

Chairman and CEO

The Gene Vance Jr. Foundation
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Rutherfordton, North Carolina

The Foundation was established in honor of Mr Minc's brother in-law, American hero, cryptologic linguist SSG Gene Arden Vance, Jr. Army Special Forces (Airborne)

Gene Vance Jr. was killed in action in Afghanistan while taking part in Operation Mountain Lion. His actions saved the lives of two Americans and as many as 18 Afghani soldiers.

Life Transforming Innovation

Michael M.J. Minc was born and raised in Cape Town, South Africa and is the Founder, Chairman and interim CEO of the Gene Vance Jr. Foundation for Catastrophically Injured War Veterans. Established by Mr. Minc in 2005, the Foundation presently provides services to military medicine and leads a nationwide volunteer effort that marshals the forces of military and civilian specialists to help advance care for the war wounded. As head of the Foundation, he has garnered recognition and support for its promising ideas and strategic direction from leaders in the United States Senate, Military and world renowned healthcare institutions.

Mr Minc is also an accomplished creative strategist with multidisciplinary expertise in global brand and business development, integrated marketing, public/investor relations and design. As the principal and founder of Mike M Inc., he has worked in a variety of capacities in varied industries over the past twenty five years generating and leading initiatives that help drive revenue growth, brand recognition and market share for Fortune 100/500 global leaders of industry like Coca-Cola and Levi-Strauss as well as a select group of businesses, distinguished organizations and multiple International Olympic sporting events including Barcelona Olympic Swim Team USA, Salt Lake City Winter Olympics and The Tenth Paralympic Games in Atlanta, Georgia.

Michael attended what is now known as the University of Johannesburg and began his professional career as a Hotelier with Southern Sun, a leading hotel group in Africa. He has served in the military abroad performing active duty as a squad leader and is also an accomplished artist with a prolific lifetime creative career that began at age ten.

His passionate interest in life transformimg innovations capable of dramatically improving quality of life for the impaired began as a child when his father was severly injured in an automobile accident.

The Gene Vance Jr. Foundation

The Foundation's goals include helping wounded warriors with unique, complex and devastating war injuries regain their ability to work and live productively within our society.

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VICE ADMIRAL MATTHEW L. NATHAN
SURGEON GENERAL OF THE NAVY
CHIEF OF THE NAVY'S BUREAU OF MEDICINE AND SURGERY

Vice Admiral Nathan is the 37th surgeon general of the Navy and chief of the Navy's Bureau of Medicine and Surgery.

Nathan received his Bachelor of Science degree from Georgia Tech, and his Doctor of Medicine from The Medical College of Georgia in 1981. He completed internal medicine specialty training in 1984 at the University of South Florida before serving as the Internal Medicine department head at Naval Hospital Guantanamo Bay, Cuba. In 1985, Nathan transferred to Naval Hospital, Groton, Conn., as leader of the Medical Mobilization Amphibious Surgical Support team. In 1987, Nathan transferred to Naval Medical Center San Diego as head, Division of Internal Medicine with additional duty to the Marine Corps, 1st Marine Division.

In 1990, he served as a department head, Naval Hospital Beaufort, S.C., before reporting to Naval Clinics Command, London, U.K., where he participated in military-to-military engagements with post-Soviet Eastern European countries. In 1995, he was assigned as specialist assignment officer at the Bureau of Naval Personnel, providing guidance to over 1,500 U.S. Navy Medical Corps officers. In 1998, he accepted a seat at the Joint Industrial College of the Armed Forces located in Washington, D.C., graduating in 1999 with a Master's degree in "Resourcing the National Strategy." Nathan went on to serve as the fleet surgeon, Forward Deployed Naval Forces, Commander, U.S. 7th Fleet, aboard the flagship USS Blue Ridge (LCC 19), out of Yokosuka, Japan. In 2001, he transferred as deputy commander, Navy Medical Center Portsmouth, Va.

In 2004, Nathan assumed command of Naval Hospital Pensacola with additional oversight of 12 clinics in four states where he oversaw Navy medical relief efforts following Hurricanes Ivan, Dennis, and Katrina. Despite all facilities receiving crippling blows, his command still garnered the TRICARE/DOD award for "highest patient satisfaction in a medium-sized facility". In June 2006, he transferred as the fleet surgeon to the Commander, U.S. Fleet Forces Command, instrumental in organizing the Fleet Health Domain integration with the Fleet Readiness Enterprise while providing medical global force management. In 2007, Nathan was assigned as commander, Naval Medical Center Portsmouth and Navy Medicine Region East with command of over 18,000 personnel and an operating budget exceeding $1.2 billion.

Nathan also served as commander, Walter Reed National Military Medical Center and Medicine, National Capital Area where he was the Navy component commander to the largest military medical integration and construction project in Department of Defense history.

Nathan is board certified and holds Fellow status in the American College of Physicians and the American College of Healthcare Executives. He also holds an appointment as Clinical Professor of Medicine at the Uniformed Services University of the Health Sciences. He is a recipient of the American Hospital Association "Excellence in Leadership" award for the Federal Sector.

Nathan's personal awards include the Distinguished Service Medal (1); Legion of Merit (5); Meritorious Service Medal (2); Navy and Marine Corps Commendation Medal, and Navy and Marine Corps Achievement Medal (2).

REAR ADMIRAL BRUCE L. GILLINGHAM
COMMANDER
NAVAL MEDICAL CENTER SAN DIEGO

A native of San Diego, Calif. Rear Admiral Gillingham received his Bachelor of Arts degree in cultural anthropology with high honors from the University of California, San Diego and his medical degree from the Uniformed Services University of the Health Sciences. While at USUHS he was inducted into Alpha Omega Alpha, the medical honor society.

Dr. Gillingham completed a surgical internship at Naval Medical Center San Diego and subsequently attended the Naval Undersea Medical Institute in Groton, Connecticut and Naval Diving and Salvage Training Center in Panama City, Florida. He qualified as an Undersea and Diving Medical Officer and was assigned to Naval Hospital Roosevelt Roads with additional duty to Naval Special Warfare Unit 4.

He completed his orthopaedic residency at NMC San Diego in 1994 and subspecialty training as a pediatric orthopaedic surgeon at the Hospital for Sick Children in Toronto, Canada in August, 1995. He returned to NMCSD and was assigned as the Director of Pediatric Orthopaedic and Scoliosis Surgery. He served as the associate orthopaedic residency program director for six years and is an Assistant Professor of Surgery at the Uniformed Services University of the Health Sciences. He also served as staff orthopaedic surgeon for the hospital ship USNS Mercy (TAH-19) for three years, and was then selected as Director, Surgical Services for the ship.

While serving as Director for Surgical Services at NMCSD, the Directorate was recognized in 2004 with the first annual DOD Patient Safety Award for establishing the MEDTEAMS program. He deployed to Taqaddum, Iraq during Operation Iraqi Freedom II as the Battalion Chief of Professional Services (Forward) for the 1st Force Service Support Group and Officer in Charge of the Surgical Shock Trauma Platoon (SSTP) which provided echelon II surgical care during Operation Phantom Fury achieving a 98% combat casualty survival rate. Upon his return to NMCSD, he was instrumental in establishing the Comprehensive Combat Casualty Care Center (C-5).

Previously he has served as the Deputy Commander, Naval Medical Center Portsmouth from May 2006 to July 2008; Commanding Officer, Naval Hospital Jacksonville, Florida from August 2008 until July 2010; Pacific Fleet Surgeon from August 2010 until August 2012. He led efforts to assist the Vietnam People's Navy in establishing an Undersea and Hyperbaric Medical program and in relocating Navy Medical Research Unit-2 to Singapore. He served as the Joint Support Force-Japan Surgeon in the immediate aftermath of the Fukishima Nuclear Disaster ensuring the safety of over 200,000 American citizens, military members and their families.

Most recently, RDML Gillingham was the Fleet Surgeon and Director, Health Services, US Fleet Forces Command. In this role he was the principal medical advisor to the Commander and was responsible for organizing, training and equipping ready health support services to meet the healthcare needs and operations of the worldwide fleet.

Gillingham's military decorations include the Legion of Merit (five awards), Meritorious Service Medal, Navy Commendation Medal (two awards), Navy Achievement Medal, and the Iraq Campaign Medal with the Eagle Globe and Anchor device with bronze star, the Humanitarian Service Medal and the Fleet Marine Force ribbon. A Diplomat of the American Board of Orthopaedic Surgery, Rear Admiral Gillingham is a Fellow of the American Academy of Orthopedic Surgeons, the American Orthopedic Association and a member of the Pediatric Orthopaedic Society of North America, American College of Physician Executives, Society of Military Orthopedic Surgeons, and Association of Military Surgeons of the United States and has published over thirty scientific articles and book chapters.

CAPT CRAIG J. SALT, MC, USN
FOUNDER AND CHAIRMAN, CARE PROGRAM
NAVAL MEDICAL CENTER SAN DIEGO

CAPT Craig Salt is the senior Staff Plastic Surgeon and former Department Head of Plastic Surgery at NMCSD (Jan 09 - Jun 11). He has been at NMCSD since completing his Plastic Surgery Residency training at the University of Tennessee, Memphis in 2003. His training focused heavily on trauma and extremity reconstruction as well as the care of burn patients.

He has a B.S. Degree in Biology from St. Francis College in Loretto, Pennsylvania in 1987 and attained his Medical degree from the Uniformed Services University in Bethesda, Maryland in 1991. CAPT Salt completed an Internship in General Surgery at Oakland Naval Hospital (1991 - 1992) and served as a Naval Flight Surgeon from 1993 - 1997.

Over the past 8 years, through Operation Iraqi Freedom and Operation Enduring Freedom, he has gained extensive experience with the reconstruction of combat casualties as well as with cancer reconstruction and the treatment of congenital cleft lip and palate deformities. He has deployed twice on humanitarian missions (USNS Mercy in 2006 and USNS Comfort in 2007). CAPT Salt founded Project CARE (Comprehensive Aesthetic Restorative Effort) in 2008 in an effort to specifically address the complex emotional and aesthetic recovery issues of our combat wounded Service members.

CDR PETE SHUMAKER, MC, USN
CHAIRMAN, DERMATOLOGY
PROGRAM DIRECTOR, CARE TRAINING SUMMIT
NAVAL MEDICAL CENTER SAN DIEGO

CDR Peter Shumaker, MD, currently serves as Chairman of the Department of Dermatology at the Naval Medical Center San Diego and has an appointment as a Clinical Associate Professor of Dermatology at the Uniformed Services University of the Health Sciences. CDR Shumaker received his undergraduate degree from Penn in 1993 and his medical degree from Georgetown in 1997. Following an internship in Internal medicine at the Naval Medical Center in San Diego and flight surgeon training in Pensacola, Florida, he began a tour as a flight surgeon at the Naval Hospital Roosevelt Roads, Puerto Rico. While there, he served in support of the Army's elite D Company, 160th Special Operations Aviation Regiment and as director of the aviation medicine program. CDR Shumaker completed dermatology residency at the Naval Medical Center San Diego in 2005, and went on to lead the dermatology service at the Naval Hospital Yokosuka, Japan, until 2007. Following a fellowship in procedural dermatology at Scripps Clinic in La Jolla, CA, he joined the dermatology teaching staff at the Naval Medical Center San Diego in 2008. CDR Shumaker and colleagues are dedicated to facilitating the functional and cosmetic recovery of our wounded warriors with traumatic scarring and other related injuries. He has lectured nationally and internationally on cutting edge treatments for scars and has multiple related publications and active research protocols.

R. ROX ANDERSON, M.D.

PROFESSOR OF DERMATOLOGY, HARVARD MEDICAL SCHOOL
ASSOCIATE DERMATOLOGIST, MASSACHUSETTS GENERAL HOSPITAL
ADJUNCT ASSOCIATE PROFESSOR, M.I.T. HEALTH SERVICES AND TECHNOLOGY PROGRAM
DIRECTOR, WELLMAN CENTER FOR PHOTOMEDICINE

Dr. Anderson graduated from MIT, and then received his MD degree magna cum laude from the joint MIT-Harvard medical program, Health Sciences and Technology. After completing his dermatology residency and an NIH research fellowship at Harvard, he joined the faculty where he is now Harvard Medical School Professor in dermatology, Director of the Wellman Center for Photomedicine; and adjunct Professor of Health Sciences and Technology at MIT. Dr. Anderson conceived and developed many of the non-scarring laser treatments now widely used in medical care. These include treatments for birthmarks, microvascular and pigmented lesions, tattoo and permanent hair removal. He has also contributed to treatment for vocal cords, kidney stones, glaucoma, heart disease, photodynamic therapy for cancer and acne, and optical diagnostics. His research has advanced the basic knowledge of human skin photobiology, drug photosensitization mechanisms, tissue optics, and laser-tissue Interactions. In addition to research at the Wellman Center, Dr. Anderson practices dermatology at Massachusetts General Hospital and teaches at Harvard and MIT. Active research includes diagnostic tissue imaging and spectroscopy, photodynamic therapy, mechanisms of selective laser-tissue interactions, adipose tissue biology and novel therapy for skin disorders. Dr. Anderson has been awarded over 60 national and international patents, and has co-authored over 300 scientific books and papers.

SPENCER BROWN, M.D.

EXECUTIVE DIRECTOR, VISITING PROFESSOR, CENTER FOR INNOVATION IN RESTORATIVE MEDICINE (CIRM), UNIVERSITY OF PITTSBURGH

Dr. Spencer A. Brown is the Executive Director for CIRM. His role is to design, develop and implement strategic plans for implementing new technology platforms into clinical translation as well as being responsible for the day-to-day operation of UPMC Center for Innovation in Restorative Medicine [CIRM]. For this proposal, he will be assist in the execution of all aspects of the proposed clinical studies including protocol development, IRB approval and data processing and reporting. All of these efforts will to support the PI, Dr. Ernie Manders.

Dr. Brown's distinguished career cover spans three decades starting as Research Assistant Professor at Baylor College of Medicine with Dr. Antonio Grotto and Dr. Wolfgang Patsch in Houston, TX followed by Assistant Research Professor in the Department of Medicine and then Assistant Professor at the Sarah W. Stedman Nutrition Center all at Duke University Medical Center. While in North Carolina, Dr. Brown was the Founder of Zen-Bio Inc., a biotech company specialized. In the adipose tissue and fat stem cells research and commercialization. Prior to joining the University of Pittsburgh he was an Assistant Research Professor and Director of Research in the Department of Plastic Surgery at the University of Texas Southwestern Medical Center in Dallas, TX. He had the honor of serving as President Elect of the International Federation of Adipose Therapeutics and Science Society (IFAT) in 2010. He has served on the NIH K Awards Special Emphasis Panel for 11 years and served on IRB Boards for 12+ years and IACUC for 9 years.

KODI AZARI, M.D., FACS
ASSOCIATE PROFESSOR
DEPARTMENT OF ORTHOPAEDIC SURGERY
DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY, DEPARTMENT OF SURGERY
DIVISION OF LIVER AND PANCREAS TRANSPLANTATION, DEPARTMENT OF SURGERY
CHIEF, SECTION OF RECONSTRUCTIVE TRANSPLANTATION
MEDICAL CO-DIRECTOR, OPERATION MEND
DAVID GEFFEN SCHOOL OF MEDICINE AT UCLA

Dr. Azari received his M.D. degree at East Carolina University School of Medicine and his General Surgery and Plastic Surgery training at the University of Pittsburgh Medical Center (UPMC). He also completed a Tissue Engineering Fellowship at Carnegie Mellon University and a Hand and Microvascular Surgery Fellowship at UCLA. In 2008, he returned to UCLA as Associate Professor in the UCLA Department of Orthopaedic Surgery and Division of Plastic and Reconstructive Surgery.

Dr. Azari is board-certified in Plastic Surgery and Hand Surgery. His clinical areas of interest include all aspects of hand/wrist, microvascular, reconstructive plastic, and peripheral nerve surgery; however, he is most passionate about the complex reconstruction of severely injured (mutilated) hands and serves as the Chief of the Section of Reconstructive Transplantation; Director of the UCLA Hand, Face, and Abdominal Wall Transplantation Programs; and Medical Co-Director of Operation Mend. He on the staff of Ronald Reagan UCLA Medical Center, Santa Monica-UCLA Medical Center and Orthopaedic Hospital, and Olive View-UCLA Medical Center.

For more than two decades, Dr. Azari has been involved in both clinical and laboratory research and is the author of over 60 scientific articles and book chapters. He lectures extensively both nationally and internationally on hand surgery as well as plastic surgery, but his current research focus is on upper limb and face transplantation.

Dr. Azari is a member of such prestigious organizations as the American Association of Plastic Surgeons, American Society for Hand Surgery, American Association for Hand Surgery, American College of Surgeons, and International Society of Hand and Composite Tissue Allotransplantation; is a founding member of the American Society for Reconstructive Transplantation; and sits on numerous local and national committees. Additionally, he was Associate Editor for *Annals of Plastic Surgery*, *Current Opinion on Organ Transplantation,* contributing editor for *Yearbook of Hand and Upper Limb Surgery*, and he serves as a consultant reviewer for several peer-reviewed journals. Among his honors, he has been recognized as follows: Los Angeles County Medical Association's Innovation for community service awardew, Special Invited Speaker for the Korean Society of Microsurgery, Plastic Surgery Visiting Professor for the American Society for Surgery of the Hand, Visiting Professor to numerous institutions, and faculty teaching awards.

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LTCOL JOSE E. BARRERA, MC, USAF

JBSA CHAIRMAN, DEPARTMENT OF OTOLARYNGOLOGY-HEAD AND NECK SURGERY
CHIEF, OTOLARYNGOLOGY SERVICE, SAN ANTONIO MILITARY MEDICAL CENTER
CHIEF, FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY
ASSOCIATE PROFESSOR, UNIFORMED SERVICES UNIVERSITY
ADJUNCT ASSOCIATE PROFESSOR, UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER
SAN ANTONIO MILITARY HEALTH SYSTEM, TEXAS

Dr. Barrera received his Bachelor's degree in Biochemistry graduating with military distinction from the U.S. Air Force Academy. He attended the University of Colorado School of Medicine and completed a research fellowship in translational genomics. Dr. Barrera received his surgical training as a general surgery intern at Exempla Saint Joseph Hospital in Denver, Colorado and was awarded the Outstanding Intern of the Year Award. He completed an Otolaryngology-Head and Neck residency at the University of Colorado. Dr. Barrera served with the US Air Force in Japan and was awarded the Air Force's Top Clinical Research Award and the Pacific Surgeon of the Year award. He has also earned the 56th Annual Flemming Award for exemplary contribution to the Federal Government in Scientific Research. Dr. Barrera completed two surgical fellowships in Sleep Surgery and in Facial Plastic and Reconstructive Surgery at Stanford University. He is triple board certified in Otolaryngology-Head and Neck surgery, Sleep Medicine, and Facial Plastic and Reconstructive Surgery.

Dr. Barrera's research interests include combined laser surgery for facial wounds, facial rejuvenation, and rhinoplasty surgery. He employs both soft tissue surgery and maxillofacial surgery in helping patients "look refreshed and feel rested." He is the Department Chairman of Otolaryngology at the San Antonio Military Health System and is an Associate Professor at Uniformed Services University and University of Texas Health Sciences Center.

BRIAN T. CARLSEN , M.D.

ASSOCIATE PROFESSOR OF PLASTIC SURGERY, MAYO CLINIC SCHOOL OF MEDICINE
ASSOCIATE SURGICAL DIRECTOR, HAND ALLOTRANSPLANTATION PROGRAM, MAYO CLINIC
CONSULTANT , DEPARTMENT OF ORTHOPAEDIC SURGERY, DIVISION OF HAND SURGERY, MAYO CLINIC

Brian T. Carlsen, M.D. is a consultant and assistant professor at Mayo Clinic in Rochester Minnesota. He specializes in hand surgery and reconstructive microsurgery. He has a particular interest in improving patients' lives after amputation. He is interested in surgical approaches to improve function including reattachment of amputated parts, autologous thumb and finger reconstruction, toe transfer, skeletal lengthening, hand transplantation, and targeted muscle and sensory reinnervation to improve prosthetic function. In the laboratory, he is using novel approaches to "engineer" tissues that may be used for limb s alvage reconstruction or even replace lost parts.

STEVEN L. BERNARD, M.D.
DEPARTMENT OF PLASTIC SURGERY
DIRECTOR, PLASTIC SURGERY RESIDENCY PROGRAM
CLEVELAND CLINIC

Steven L. Bernard, M.D. is a plastic surgeon at Cleveland Clinic. He was born in Poughkeepsie, NY. He received his medical training at Case Western Reserve University School of Medicine and went on to complete residencies in General Surgery, Plastic Surgery and fellowship training in Pediatric Plastic Surgery as well as Hand and Microsurgery at the University of Pittsburgh Medical Center. He was a part of the ground breaking face transplant done a the Cleveland Clinic. His special interests include breast surgery, micro surgery, and cosmetic injectable fillers such as hyaluronic acid and Botox ®. Additional interests include vein treatment (sclerotherapy), pediatric plastic surgery and cosmetic ear surgery (otoplasty).

Dr. Bernard is board certified in plastic surgery and has a certificate-added qualification in hand surgery. During this training, he was named an Allen Scholar and spent two years in microsurgical research. His many clinical interests include microsurgery reconstruction of the breast and hand surgery. As an innovator, he pioneered an IV fluid system that avoid the use of sharp needles improving patient safety.

The first 10 years of his career were at MetroHealth Medical Center where he served as Assistant Professor of Surgery at Case Western Reserve University and pioneered techniques to improve outcomes of complex head and extremity trauma patients.

Dr. Bernard is an invited lecturer at national and international medical meetings and has authored and co-authored more than 200 scientific papers and book chapters on plastic surgery topics including and infection management, total lip reconstruction, hand burns and trauma and prefabricated microsurgical flaps.

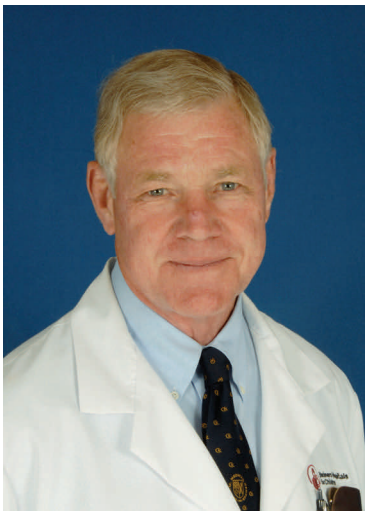
PAUL CEDERNA, M.D.

CHIEF, SECTION OF PLASTIC SURGERY
ROBERT ONEAL PROFESSOR OF PLASTIC SURGERY
PROFESSOR, BIOMEDICAL ENGINEERING
UNIVERSITY OF MICHIGAN

Paul S. Cederna, M.D. is Chief of the Section of Plastic Surgery, Professor in the Department of Surgery, and Professor in the Department of Biomedical Engineering at the University of Michigan who specializes in reconstruction of complex wounds. By combining his clinical training in general surgery, microsurgery, and plastic surgery, he is able to Incorporate creative solutions with technically challenging operations to solve the most difficult problems resulting from trauma, cancer, or burns. Academically, Dr. Cederna has a very active basic science research lab investigating mechanisms of peripheral nerve regeneration following nerve injury and repair. He has received a $5,500,000 from the Department of Defense, Army Research Office, for the development of a totally biointegrated peripheral nerve interface to allow closed loop neural control of an upper extremity prosthesis. He has also recently been awarded a $3,300,000 grant from DARPA to translate this basic science research into human applications. Dr. Cederna has received over $17,000,000 in research funding, authored over 130 scientific manuscripts, published 20 book chapters, presented his work over 400 times at national and international meetings, and has been asked to give over 190 extramural presentations. He has received over 62 national research awards either as first author or mentor of the research work. Dr. Cederna is the Past-Chairman of the Plastic Surgery Research Council, Past-President of the American Society for Peripheral Nerve, Past-President of the Michigan Academy of Plastic Surgeons, is on the Board of Directors of the American Board of Plastic Surgery, and is on the Board of Directors for the American Society of Plastic Surgeons and Plastic Surgery Foundation. Dr. Cederna has been recognized for his clinical accomplishments and is currently listed in the"Best Doctors in America", the "Guide to America's Top Plastic Surgeons", "American's Top Doctors", and America's Most Compassionate Doctors".

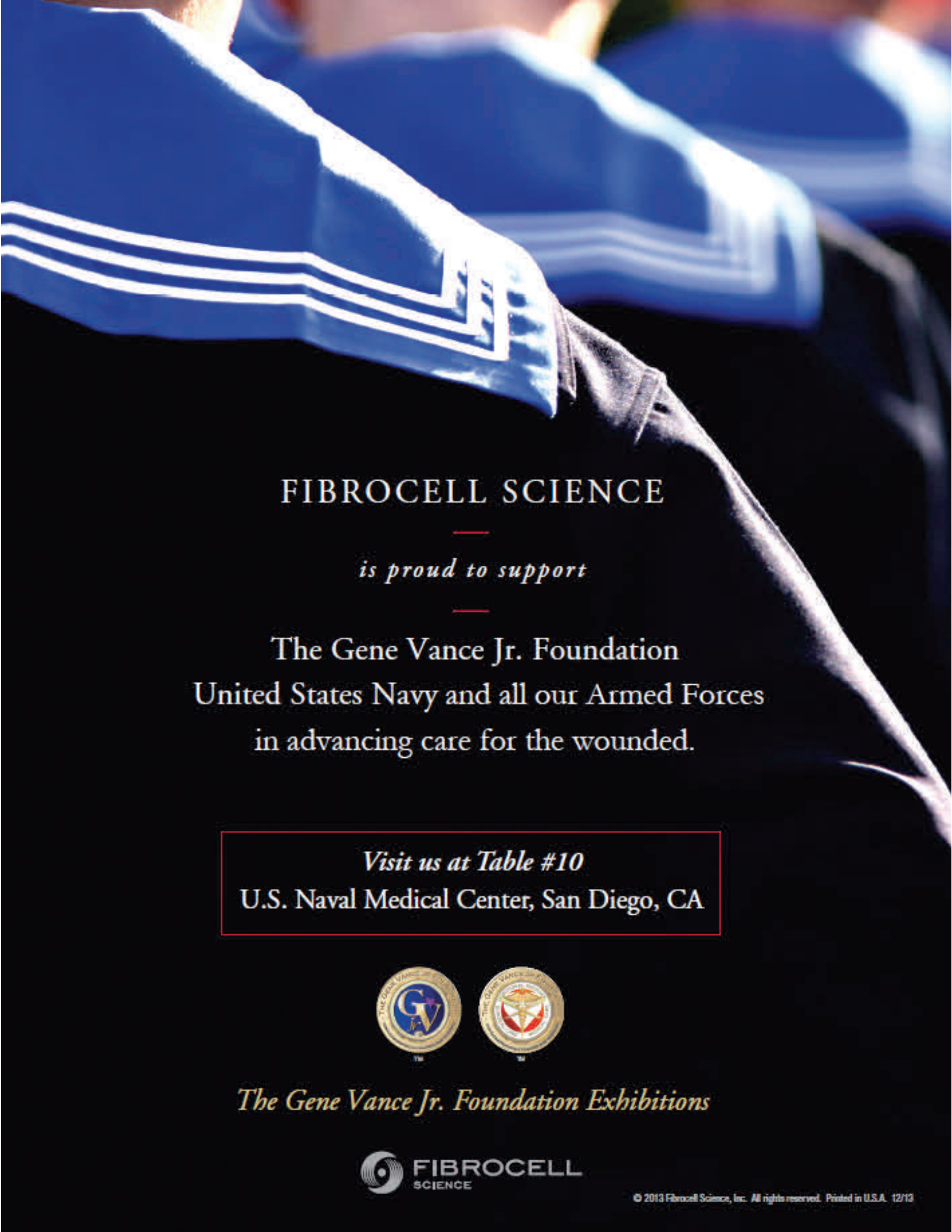
MATTHIAS DONELAN, M.D.

ASSOCIATE CLINICL PROFESSOR OF SURGERY, HARVARD MEDICAL
CHIEF, DIVISION OF PLASTIC SURGERY
SHRINER'S BURN HOSPITAL, BOSTON



Dr. Matthias B. Donelan graduated from Harvard College in 1967 and received his medical degree from the Tufts University School of Medicine in 1972 after spending an elective year as a Student Fellow in Pathology. He received his surgical and plastic surgical training at the Massachusetts General Hospital and subsequently spent an invaluable year as Plastic Surgical Tutor Specialist with Sir William Manchester at the Middlemore Hospital in Auckland, New Zealand. Dr. Donelan is currently an Associate Clinical Professor of Surgery at Harvard Medical School and an Associate Visiting Surgeon at the Massachusetts General Hospital. He has been the Chief of Plastic Surgery at the Boston Shriners Hospital since 1982 and is currently also the Interim Chief of Staff.

Dr. Donelan is a widely recognized expert in the field of burn reconstructive surgery and has developed numerous innovative techniques to enhance the care of burn patients. He has multiple publications in peer-reviewed scientific journals, and has written definitive textbook chapters on burn reconstruction. Dr. Donelan has long been an advocate for scar rehabilitation through tension relief and the use of the pulsed-dye laser. He is currently investigating fractional CO_2 laser treatment for aesthetic and reconstructive indications in burn and trauma patients. In addition to clinical and scientific activities he is involved in residency training and is on the executive committee of the Harvard Combined Plastic Surgery Training Program.



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LCDR JOSH DUCKWORTH, MC, USN
MEDICAL DIRECTOR, STROKE SERVICES
NAVAL MEDICAL CENTER SAN DIEGO

Dr. Duckworth is a staff neurocritical care attending of UC San Diego Health System's Neurocritical Care Program and Neuro-Intensive Care Unit (ICU), which provides around-the-clock expert care, seven days a week, from physicians and staff specializing in neurocritical care. He is also a staff neurologist at Naval Medical Center, San Diego.

Dr. Duckworth's research interests include the diagnosis, management, and prognosis of traumatic brain injury. He has published several book chapters and scientific articles in leading journals, including the *Journal of Neurocritical Care*, *Critical Care Medicine*, *Anesthesiology*, and *Pediatrics*. He is an active member of the Emergency Neurologic Life Support (ENLS) committee of the Neurocritical Care Society and co-authored their national Guidelines for the Management of Intracranial Hypertension and Herniation.

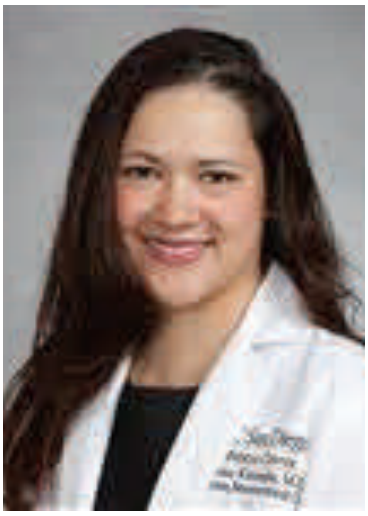
Dr. Duckworth completed a fellowship in Neurocritical Care with the Department of Anesthesia and Critical Care Medicine at Johns Hopkins School of Medicine. He completed his neurology residency at the Uniform Services University's Department of Neurology, and his internship training at Naval Medical Center, San Diego. He is board eligible in both neurology and neurocritical care.

Dr. Duckworth earned his medical degree from The Uniform Services University of the Health Sciences, and completed post baccalaureate programs at both The Massachusetts General Hospital and Stanford University Medical Center.

CDR CURTIS GABALL, MC, USN
ASSISTANT CHAIR, OTOLARYNGOLOGY
NAVAL MEDICAL CENTER SAN DIEGO

CDR Gaball is very proud and grateful to be a member of the surgical staff at Naval Medical Center San Diego. He is fellowship trained and board certified in Facial Plastic and Reconstructive Surgery. He is also board certified in Otolaryngology Head and Neck Surgery. He has been an integral member of the Project CARE multidisciplinary team since its earliest days, even serving as its Acting Chairperson. Dr. Gaball treats the full spectrum of functional and esthetic problems of the face and was selected to lead the workshop in surgical scar revision because of his extensive experience and interest in this area. His other areas of special interest are in revision rhinoplasty and nasal reconstruction.

NAVAZ KARANJIA, M.D.
MEDICAL DIRECTOR, NEUROCRITICAL CARE & NEURO-ICU
ASSISTANT PROFESSOR OF NEUROSCIENCES
UNIVERSITY OF CALIFORNIA, SAN DIEGO



Dr. Karanjia is an assistant professor of neurosciences and medical director of UC San Diego Health System's Neurocritical Care Program and Neuro-Intensive Care Unit (ICU). She founded UCSD's Neuro-ICU, which provides around-the-clock expert care, seven days a week, from physicians and staff specializing in neurocritical care. Under her direction, UCSD has achieved Joint Commission Comprehensive Stroke Center certification and developed a neurocritical care fellowship and research program.

Dr. Karanjia's research interests include early detection of neurologic deterioration and evaluating methods for monitoring cerebral blood flow and intracranial pressure. She has published several book chapters and articles in leading journals, including Neurocritical Care and Archives of Neurology, and is a frequent speaker at national and international conferences on topics in neurocritical care.

Dr. Karanjia completed a fellowship in Neurocritical Care with the Department of Anesthesia and Critical Care Medicine at Johns Hopkins School of Medicine. She completed her neurology residency at UC Los Angeles School of Medicine's Department of Neurology, and her internship training at Stanford University School of Medicine's Department of Internal Medicine. She is board certified in both neurology and neurocritical care.

Dr. Karanjia earned her medical degree from Stanford University School of Medicine, and graduated magna cum laude as an undergraduate from Harvard University.

Dr. Karanjia is a member of many professional organizations, including the American Heart Association/American Stroke Association, the Society of Critical Care Medicine, the Neurocritical Care Society, and the American Academy of Neurology.

ANDREW KRAKOWSKI, M.D.

DEPARTMENT OF PEDIATRIC & ADOLESCENT DERMATOLOGY
RADY CHILDREN'S HOSPITAL, SAN DIEGO

Andrew Krakowski is a board-certified dermatologist and clinical assistant professor in the division of pediatric and adolescent dermatology at Rady Children's Hospital, San Diego and University of California, San Diego (UCSD). He earned his medical degree from the University of Pennsylvania and completed a full residency in pediatrics at the Johns Hopkins Medical Institute. He trained in dermatology at the University of California, San Diego and was elected to serve as chief resident in his final year. He accomplished additional specialty training as a two-year research fellow and as a one-year clinical fellow in pediatric dermatology at Rady Children's Hospital, San Diego, where he continues to serve as an attending physician.

Dr. Krakowski has special interests in laser surgery, scar revision, acne, eczema, and wilderness and travel medicine. He enjoys teaching others about healthy skin and is an invited lecturer in dermatology at the American Academy of Dermatology (AAD) and the American Academy of Pediatrics (AAP). He founded UCSD School of Medicine's annual dermatology elective, "Med 280: Pathophysiology of the Skin," and he serves as pediatric dermatology editor for the *Journal of Clinical and Aesthetic Dermatology* and "Spot the Rash," in *Infectious Diseases in Children*. He is the author of numerous peer-reviewed publications including expert recommendations on the diagnosis and treatment of preadolescent acne, endorsed by the AAP and published in *Pediatrics*, in May 2013. In 2010, the American Academy of Dermatology awarded him a Gold Triangle for "public health service to the dermatological community."

Outside of the hospital, Dr. Krakowski serves as the wilderness first-aid expert for Boys Scouts of America and that organization's official website, *BoysLife.com*. He is also host of boonDOCS Wilderness & Travel Medicine Show on cable TV's *Outdoor Channel*, so make sure to ask him which spiders and snakes to watch out for in San Diego!

CDR KEVIN KUHN, MC, USN

DEPARTMENT OF ORTHOPAEDIC SURGERY
ASSISTANT PROFESSOR OF SURGERY,
UNIFORMED SERVICES UNIVERSITY OF HEALTH SCIENCES
NAVAL MEDICAL CENTER SAN DIEGO

CDR Kevin Kuhn, MD is an Orthopaedic Trauma Surgeon at the Naval Medical Center San Diego. He graduated from Occidental College, and attended medical school at the Uniformed Services University of Health Sciences in Bethesda, MD. Dr. Kuhn then completed internship and residency in Orthopedic Surgery at the Naval Medical Center San Diego, followed by a fellowship in Orthopaedic Trauma at St. Louis University Hospital in St. Louis, MO. He has served as the Diving Medical Officer for Explosive Ordnance Disposal Group One in Coronado, CA. He has also served overseas as an Orthopaedic Surgeon at Naval Hospital Guam. More recently, he served on the Orthopaedic Trauma Service at Lanstuhl Regional Medical Center, the military Role 3 Hospital in Germany which is the primary medevac point for all war casualties returning from Operation Enduring Freedom.

Dr. Kuhn is Assistant Professor of Surgery, Uniformed Services University of the Health Sciences. His current research interests include biomechanics of femur fracture fixation, treatment of severe lower extremity trauma, and outcomes of amputee care.

CDR LEO KROONEN, MC, USN

HAND & UPPER EXTREMITY SURGERY, DEPARTMENT OF ORTHOPAEDICS
ASSISTANT PROFESSOR OF SURGERY,
UNIFORMED SERVICES UNIVERSITY OF HEALTH SCIENCES
DIRECTOR OF MEDICAL STUDENT EDUCATION, DEPARTMENT OF ORTHOPAEDIC SURGERY
NAVAL MEDICAL CENTER SAN DIEGO

CDR Leo Kroonen, MD is a Hand & Microvascular surgeon at the Naval Medical Center San Diego. He graduated from Stanford University, and attended medical school at the Medical College of Pennsylvania/ Hahnemann University. Dr. Kroonen then completed internship and residency in Orthopedic Surgery at the Naval Medical Center San Diego, followed by a fellowship in Hand & Microvascular Surgery at the Philadelphia Hand Center. He has served in combat in both Iraq and Afghanistan. As Battalion Surgeon for the 2nd Battalion, Fifth Marine Regiment, he was one of the first US physicians to enter Iraq during the Invasion of 2003. More recently, he served at the NATO Multinational Medical Unit in Kandahar, Afghanistan, performing over 200 life and limb saving surgeries on Coalition forces and foreign nationals.

Dr. Kroonen is Assistant Professor of Surgery, Uniformed Services University of the Health Sciences. His current research interests include minimally invasive techniques for the treatment of elbow arthritis, bone grafting techniques for scaphoid nonunions, optimizing surgical management of cubital tunnel syndrome, and the use of laser scar therapy to improve functional outcomes in hand surgery.

TODD A. KUIKEN, M.D., Ph.D.

DIRECTOR, CENTER FOR BIONIC MEDICINE
DIRECTOR, AMPUTEE SERVICES

Todd A. Kuiken received his MD and Ph.D. in biomedical engineering from Northwestern (1990) and his residency in PM&R at the Rehabilitation Institute of Chicago (1995). Dr. Kuiken currently is the Director of the Center for Bionic Medicine. He is a Professor in the Depts. of PM&R, Biomedical Engineering and Surgery of Northwestern University.

Dr. Kuiken's research team is working to develop a neural-machine interface to improve the function of artificial limbs. A main research focus of the lab is developing a technique to use nerve transfers for improvement of myoelectric prosthesis control. By transferring the residual arm nerves in an upper limb amputee to spare regions of muscle it is possible to make new signals for the control of robotic arms. These signals are be directly related to the original function of the limb and allow simultaneous control of multiple joints in a natural way. This work has now been extended with the use of pattern recognition algorithms, enabling the intuitive control of more functions it the prosthetic limbs.

ANAND R. KUMAR, M.D., FACS, FAAP
DEPARTMENT OF PLASTIC SURGERY
JOHN HOPKINS UNIVERSITY

Anand R. Kumar, MD, FACS, FAAP was recruited to the Johns Hopkins Department of Plastic Surgery from Pittsburgh, PA at the Children's Hospital of Pittsburgh where he served as director of facial skeletal surgery. Prior to his academic appointment, Dr. Kumar completed his military service in Bethesda, MD, where he served as director and staff pediatric plastic surgeon of the Military Craniofacial Unit at Walter Reed National Military Medical Center. He previously acted as division chief in plastic and reconstructive surgery at the National Naval Medical Center in Bethesda. Dr. Kumar completed a fellowship in craniofacial surgery/ pediatric plastic surgery at the University of California at Los Angeles. While in Los Angeles, Dr. Kumar also completed a residency in plastic and reconstructive surgery. His primary training in general surgery was at the Mayo Clinical Graduate School of Medicine; Rochester, Minn. Dr. Kumar obtained his medical degree from Albert Einstein College of Medicine in Bronx, NY.

His clinical practice focuses on craniofacial surgery including craniosynostosis, correction of hypertelorism(wide eyes), pediatric and adolescent facial skeletal deformities (Pierre Robin Sequence) with airway obstruction using traditional orthognathic (jaw) surgery and distraction osteogenesis. His basic science research is focused on combat casualty care related to muscle derived progenitor cells and heterotrophic bone formation with the goal of harnessing its potential for structural bone regeneration.

JOHN D. MALONE, M.D., MPH
HEAD, CLINICAL INVESTIGATION DEPARTMENT
NAVAL MEDICAL CENTER SAN DIEGO

Dr. Malone, originally from Cleveland, Ohio, received his Medical Degree from Ohio State University, Columbus, and upon graduation commenced active duty military service in the United States Navy Medical Corps. He completed his medicine internship at the Naval Medical Center San Diego (NMCSD), Internal Medicine Residency at Portsmouth Naval Hospital, and Infectious Disease Fellowship at the National Naval Medical Center (NNMC). During his 30 year U.S. Navy career, he held the positions of Head, HIV/AIDS Unit; Head, Infectious Diseases Division NNMC; Chairman, Internal Medicine Department and Director for Medical Services, NMCSD; and Commanding Officer, Medical Treatment Facility, USNS Mercy Hospital Ship.

After retiring in 2004 at the rank of Captain (0-6), Dr. Malone obtained a Masters in Public Health from the Uniformed Services University of Health Sciences (USUHS), Bethesda, MD, and became a member of the Pacific Northwest National Laboratory, Richland, Washington, as Program Manager, Center for Biological Monitoring and Modeling. After 2 years, he joined the Center for Disaster and Humanitarian Assistance Medicine, USUHS, as a liaison to Global Emerging Infections Surveillance and Response of the Armed Forces Health Surveillance Center. Returning to his home in San Diego, CA and the U.S. Navy, in August of 2011, Dr. Malone assumed the responsibility of Head, Clinical Investigations Department, Naval Medical Center San Diego, and Research Program Manager, Navy Medicine West. He is currently responsible for 325 clinical research protocols and a $6.6M budget.

Dr. Malone is a Professor of Medicine, Uniformed Services University of the Health Sciences, with over 50 publications and 80 formal presentations. He is a Fellow, Infectious Diseases Society of America; Fellow, American College of Physicians; and Fellow, American College of Physician Executives.

W.P. LEE, M.D.
THE MILTON T. EDGERTON, MD, DIRECTOR AND PROFESSOR
CHAIRMAN, DEPARTMENT OF PLASTIC AND RECONSTRUCTIVE SURGERY
JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
PLASTIC SURGEON-IN-CHIEF
JOHNS HOPKINS HOSPITAL

W. P. Andrew Lee, M.D. is the Milton T. Edgerton, MD, Professor and Chairman of Department of Plastic and Reconstructive Surgery at the Johns Hopkins University School of Medicine. A hand surgeon and basic science researcher, he conducts investigation on tolerance strategy for vascularized composite allografts, such as hand or face transplants, to ameliorate the need for long-term systemic immunosuppression.

Dr. Lee established multi-disciplinary programs for hand transplantation at Johns Hopkins and University of Pittsburgh Medical Center using an Immunomodulatory protocol based upon investigations in his laboratory. He led the surgical team that performed the first bilateral hand transplant (2009) and the first above-elbow transplant (2010) in the U.S. A salient feature of the protocol is single-agent immunosuppression (monotherapy) that minimizes the long-term risks of hand transplantation.

Dr. Lee has served as the Chair of the American Board of Plastic Surgery (2012-13) and the President of the American Society for Surgery of the Hand (2011-12). In 2008 he helped to found the American Society for Reconstructive Transplantation, for which he currently serves as the President-Elect. He was elected the Chairman of Plastic Surgery Research Council in 2002 and President of the Robert H. Ivy Society of Plastic Surgeons in 2010-11. Dr. Lee has received more than 70 awards and honors, including the Kappa Delta Award from the American Academy of Orthopaedic Surgeons, and Sumner Koch Award and Sterling Bunnell Traveling Fellowship from the American Society for Surgery of the Hand.

Dr. Lee has mentored approximately 80 pre-doctoral and post-doctoral researchers in over two decades, and has authored more than 150 original publications in peer-reviewed journal and 40 textbook chapters on hand surgery and composite tissue transplant subjects. He served on the editorial boards of *Transplantation* and *Journal of Surgical Research,* and has been an invited speaker or visiting professor in more than 40 institutions around the world. The book co-edited by him, *Transplantation of Composite Tissue Allografts*, was published in 2008.

An honors graduate in physics from Harvard College, Dr. Lee received his medical degree from Johns Hopkins University School of Medicine, where he also completed his general surgery residency and microvascular research fellowship. He completed his plastic surgery fellowship at the Massachusetts General Hospital and his orthopedic hand fellowship at the Indiana Hand Center. In 1993 he joined the plastic surgery faculty at Massachusetts General Hospital, Harvard Medical School, and became the director of the Plastic Surgery Research Laboratory and subsequently chief of hand service in the Department of Surgery. In 2002 Dr. Lee was recruited to the University of Pittsburgh, where he served as Division Chief of Plastic Surgery until 2010. He became then the inaugural chairman of the newly established Department of Plastic and Reconstructive Surgery at Johns Hopkins.

LTCOL JON H. MEYERLE, MC, USA

ASSISTANT PROFESSOR, DEPARTMENT OF DERMATOLOGY
CHIEF, IMMUNODERMATOLOGY.
WALTER REED NATIONAL MILITARY MEDICAL CENTER
ASSISTANT PROFESSOR, DEPARTMENT OF DERMATOLOGY,
THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

Jon H. Meyerle, MD, LTC MC, USA, joined USU in September 2011 as an Assistant Professor in the Department of Dermatology.

Dr. Meyerle's primary research interests are in the areas of amputee skin care, melanoma and blistering skin diseases.

He is currently developing a therapeutic to alter the skin identity at the amputee stump. The goal of this research is to allow the skin at the stump to take on the properties of skin found on the palms and soles.

Dr. Meyerle became interested in amputee skin care as a result of his interaction with amputees returning from the wars in Iraq and Afghanistan. One of his mentors, Dr. (COL-retired) Chuck Scoville is a strong advocate for amputees and directed the Military Advanced Training Center (MATC) at Walter Reed who encouraged him to pursue ways to address skin disease in this population.

Research in skin disease in amputees is important because over half of amputees develop skin disease at the stump site. This skin disease is often overlooked and not easy to treat. As a result, the amputee cannot wear the prosthesis or use more advanced prosthesis devices.

In addition to research in amputee skin care, Dr. Meyerle also has an interest in better ways to diagnose melanoma. His research in melanoma focuses on the genetic and environmental risk factors for developing melanoma in military personnel. Melanoma is the most significant cancer to affect an active duty military population. It strikes young adults in their 20-40s and, if not diagnosed in time, is fatal.

CDR GEORGE P. NANOS, MC, USN

DIRECTOR, NATIONAL CAPITOL CONSORTIUM HAND SURGERY FELLOWSHIP
CHIEF OF SURGERY, KIMBROUGH AMBULATORY CARE CENTER, FT. MEADE, MD
ASSISTANT PROFESSOR IN SURGERY, UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES
WALTER REED NATIONAL MILITARY MEDICAL CENTER

CDR George P. Nanos III, MC, USN currently serves as the National Capital Consortium Hand Surgery Fellowship Program Director at Walter Reed National Military Medical Center (WRNMMC) in Bethesda, MD, and as the Chief of Surgery at Kimbrough Ambulatory Care Center in Fort Meade, MD. CDR completed orthopaedic surgery residency at the National Naval Medical Center in Bethesda, MD and hand surgery fellowship at the Mayo Clinic in Rochester, MN. CDR Nanos has been on staff at Walter Reed Army Medical Center and WRNMMC since 2009, and has extensive experience in the treatment combat related upper extremity injuries. CDR Nanos deployed as an orthopaedic surgeon and officer in charge of the 2nd Marine Expeditionary Force, 2nd Medical Battalion, Shock Trauma Platoon and Forward Resuscitative Surgical System at Forward Operating Base Edinburgh, Helmand Province, Afghanistan in 2011.

DAVID OZOG, M.D.

VICE-CHAIR, DEPARTMENT OF DERMATOLOGY
ASSISTANT CLINICAL PROFESSOR/LECTURER, WAYNE STATE UNIVERSITY MEDICAL SCHOOL

HENRY FORD HOSPTIAL, DETROIT

David M. Ozog, currently serves as Vice-Chair, Director of Cosmetic Dermatology, and is a Mohs surgeon, in the Department of Dermatology, Henry Ford Hospital, Detroit, Michigan, USA. He received his Undergraduate degree from the University of Michigan, completed post baccalaureate work at Bryn Mawr in Philadelphia and then obtained his medical degree from University of Rochester Medical School, Rochester, New York. He completed his dermatology residency at Henry Ford Hospital in Detroit where he served as Chief Resident. His Mohs, Cosmetic and Procedural fellowship was compelted with Dr Ron Moy at UCLA Medical Center and the Moy-Fincher Medical Group in Beverly Hills, CA. He has published more than 30 articles and book chapters, and is a frequent national lecturer in procedural dermatology. His active research interests include scarring prevention and treatment, as well as laser delivery for cosmetic and malignant conditions.

ROBERTO D. LACHICA, M.D.

ASSOCIATE PROFESSOR
DEPARTMENT OF PLASTIC SURGERY, DEPARTMENT OF OTOLARYNGOLOGY
UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER-MEMPHIS

Roberto D. Lachica, M.D. is an Associate Professor of Plastic Surgery at the University of Tennessee- Health Science Center. His medical degree and general surgery training are from the University of Chicago Hospitals-Pritzker School of Medicine. His plastic surgery training is from the University of Tennessee where he has been on faculty since 1998. His practice encompasses a broad scope of plastic surgery including breast reconstruction, aesthetic surgery, and maxillofacial trauma. He has special interest in post-traumatic limb salvage surgery and hand reconstruction using both microvascular and non-microvascular techiques.

FRANK PAPAY, M.D., F.A.C.S., F.A.A.P.
CHAIRMAN, INSTITUTE OF DERMATOLOGY AND PLASTIC SURGERY,
CLEVELAND CLINIC FOUNDATION

Dr. Frank A. Papay, MD currently serves as Chairman of the Dermatology and Plastic Surgery Institute at the Cleveland Clinic in Cleveland, Ohio and has an appointment as Professor of Surgery at the Lerner College of Medicine, Case Western Reserve University. Dr. Papay received his undergraduate degree from Ohio University and his medical degree from Northeast Ohio College of Medicine. Following a surgical internship at Riverside Methodist hospital in Columbus, Ohio, he completed residencies in Otolaryngology Head and Neck Surgery and Plastic and Reconstructive Surgery at the Cleveland Clinic. In addition to both surgical residency programs, Dr. Papay completed a preceptorship in Facial Plastic Surgery in New Orleans, Louisiana and a Craniofacial and Pediatric Plastic Surgery Fellowship at Primary Children's Hospital, University of Utah Medical Center in Salt Lake City, Utah. Dr. Papay also was awarded the George and Grace Crile Traveling Fellowship Award and an A/O Synthes Maxillofacial fellow scholarship to complete craniomaxillofacial surgery additional studies at the University of Basel's Katonspital, Basel, Switzerland.

Dr. Papay has been recognized as one of the nation's Best Doctors specializing in plastic surgery by Castle Connolly and others. He is head of the section of Cleveland Clinic's craniofacial surgery and craniofacial fellowship director leading the multidisciplinary craniofacial cleft palate surgical center. His clinical research interests include utilization of bone substitutes, microendoscopy, nasal valve function in rhinoplasty, craniofacial anomalies, surgical techniques in face allograft transplants and neuromodulation of skull base ganglia for cluster and migraine headaches. Dr. Papay was a surgical member (craniofacial surgeon) for the first face allograft transplant in the United States at the Cleveland Clinic, in addition to primary author of several innovated surgical procedures.

Dr. Papay has served as President of the Ohio Valley Society of Plastic Surgeons, Chair of the American Society of Plastic Surgery's Ethics Committee, President of the Plastic Surgery Section of the American Academy of Pediatrics, Vice- President of Education of the American Society of Maxillofacial Surgeons and board member of the Academy of Medicine of Cleveland and Northern Ohio.

He has published over 100 scientific papers, abstracts and book chapters and is the primary inventor of eight medical device patents and numerous patent applications for a variety of medical devices and health care management technologies. He has served as a senior board examiner for the American Board of Plastic Surgery, finalist judge for the collegiate inventors' competition from the National Inventors Hall of Fame, commercialization council of Cleveland Clinic Innovations department and invited section reviewer and/or editorial board of several plastics surgery scientific journals. He also continues to serve as board of directors of Jumpstart Inc., national foundation for entrepreneurship and new ventures and founder of Cleveland Cares Medical Mission serving as director of several overseas volunteer surgical missions for craniofacial and cleft palate reconstructions. Dr. Papay has lectured nationally and internationally on innovations in plastic and reconstructive surgery, health care management and clinical research protocols.

Dr. Papay is currently completing his Doctor of Management degree at the Weatherhead School of Management, Case Western Reserve University, with his thesis interest in decision-making analysis of risk by financiers of new biotech innovations and technology transfer.

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ELAINE REED, Ph.D.
DIRECTOR, IMMUNOGENETICS CENTER
UNIVERSITY OF CALIFORNIA, LOS ANGELES

Dr. Elaine F. Reed is Professor of Pathology and Laboratory Medicine at the University of California, Los Angeles and Director of the UCLA Immunogenetics Center. She directs the research and clinical activities of the UCLA Immunogenetics Center and serves as Vice Chair of Research Services for the Department of Pathology and Laboratory Medicine.

Dr. Reed received her Ph.D. in Immunology and Immunogenetics from Columbia University in 1984, and trained at Columbia University for 4 post-doctoral years with Dr. Nicole Suciu-Foca in the areas of immunogenetics and histocompatibility testing for solid organ and bone marrow transplantation, parentage testing, disease association, and cellular immunology. Dr. Reed was appointed as an Instructor in the Department of Pathology, Columbia University in 1987. In 1988 she was promoted to Assistant Professor and became Associate Professor in 1994. In 1994, she became a board certified Laboratory Director in Immunogenetics by the American Board of Histocompatibility and Immunogenetics. From 1986-1999, Dr. Reed served as the Associate Director of the Immunogenetics Laboratory at Columbia Presbyterian Medical Center, New York. In 1999, Dr. Reed joined the faculty of UCLA and became the Director of the Immunogenetics program in the Department of Pathology, David Geffen School of Medicine at UCLA. Dr. Reed oversees the immunogenetics and histocompatibility testing for solid organ and blood and marrow transplantation, maintains quality control and quality assurance programs, establishes test procedures, develops new methodology and supervises personnel.

Dr. Reed's research interests over the last 26 years have focused on mechanisms of antibody-mediated acute and chronic allograft rejection. Her recent research studies demonstrated that anti-HLA antibodies can contribute to the development of chronic rejection by triggering intracellular signaling cascades that culminate in endothelial cell and smooth muscle cell survival and proliferation. Her work has delineated the signaling pathways leading to cell proliferation and cell survival, providing the opportunity for the development of therapeutic strategies. Dr. Reed is the recipient of the 1991 Young Investigator Award, 2008 Distinguished Scientist Award and 2012 Rose Payne Award from the American Society for Histocompatibility and Immunogenetics. Dr. Reed is an active member of the American Society for Histocompatibility and Immunogenetics, American Association of Immunologists, American Society of Transplantation, Federation of Clinical Immunology Societies, International Society for Heart and Lung Transplantation, and The Transplantation Society. She serves on the editorial boards of Human Immunology, American Journal of Transplantation and Transplant Immunology Dr. Reed has also served on numerous scientific review groups and consensus panels. Dr. Reed has a track record of NIH funding for the past 26 years and published extensively in the field of Immunogenetics and Transplant Immunology. Dr. Reed has trained over 50 graduate students, post-doctoral research scientists, clinical fellows and junior faculty in the fields of Immunogenetics and Transplant Immunology.

E. VICTOR ROSS, M.D.
DIRECTOR, LASER & COSMETIC DERMATOLOGY CENTER
SCRIPPS CLINIC SAN DIEGO

E. Victor Ross, M.D., CAPT,MC, USN (ret) attended Mississippi State University where he graduated *summa cum laude* with a B.S. in physics. He obtained his medical degree from the Tulane University School of Medicine where he was a junior year inductee into *Alpha Omega Alpha*. In 1992 he completed a three-year dermatology residency at the National Naval Medical Center in Bethesda. In 1994 he was the first Navy-sponsored fellow in Photomedicine and Lasers at Massachusetts General Hospital. Dr. Ross is presently the director of the Laser and Cosmetic Dermatology Center at Scripps Clinic in San Diego. He also serves as associate editor of *Lasers in Surgery and Medicine*. Dr. Ross was the 2008 president of the American Society for Laser Medicine and Surgery and a board member of the American Society for Dermatologic Surgery. His special interests are laser skin resurfacing, fractional laser applications, photodynamic therapy, non-ablative skin remodeling, laser treatment of leg veins, laser treatment of acne, and laser hair reduction in dark skinned patients. He is the author of over 85 articles and seven book chapters. Presently, Dr. Ross is investigating novel approaches in lipolysis as well as conducting comparative trials of intense pulsed light and fractional laser sources in skin rejuvenation.

ROBERT SHERIDAN, M.D.
ASSISTANT, CHIEF OF STAFF
ASSOCIATE PROFESSOR, HARVARD MEDICAL SCHOOL
BOSTON SHRINER'S HOSPITAL FOR CHILDREN

Robert Sheridan graduated Summa Cum Laude, Phi Beta Kappa, and Alpha Omega Alpha from the Boston University 6-year medical program. He attended school with a military scholarship, trained and served as a flight surgeon in Germany, and then completed training in general surgery at Walter Reed Army Medical Center. He served as a general surgeon in Europe, Central America, and Colorado. He then trained at the Army Institute of Surgical Research (the Army Burn Center) in San Antonio and served as an attending surgeon in burns, trauma, and critical care there. He was assigned to the coalition casualty receiving hospital at LandstuhL, Germany as triage officer in support of Operation Desert Storm. Upon completion of his military scholarship obligation he left active duty and joined the Massachusetts General Hospital Division of Burns and Trauma and the Shriners Hospital for Children.

During over 20 years at the MGH he has served in a number of positions, including director of the MGH trauma service, co-director of the MGH adult burn center, director of the surgical critical care and burn fellowships, and Director of the Acute Burn Service and Assistant Chief of Staff at the Boston Shriners Hospital for Children, which is his current role. He has served part-time as director of the surgical intensive care unit for the Boston VA Healthcare System. He does volunteer work in Central America and other locations, has experience with disaster relief situations, and has received several volunteer and community service awards. He is a Colonel in the Army Reserve and has served in Afghanistan and elsewhere.

Dr. Sheridan is certified and recertified in surgery and in surgical critical care and is a Fellow of the American College of Surgeons, American Association for the Surgery of Trauma, and the American Academy of Pediatrics. He is recent past president of the American Burn Association He has authored two books and more than 300 journal articles, book chapters, editorials, and on-line resources on burn and trauma care. He is an Associate Professor of Surgery at Harvard Medical School.

J. PETER RUBIN, M.D.

CHAIR, DEPARTMENT OF PLASTIC SURGERY
PROFESSOR, BIOENGINEERING
UNIVERSITY OF PITTSBURGH

J. Peter Rubin, M.D. is Chair of the Department of Plastic Surgery, the UPMC Endowed Professor of Plastic Surgery, and Professor of Bioengineering at the University of Pittsburgh. He earned his undergraduate degree in biology from Grinnell College and his M.D. degree from Tufts University School of Medicine. He completed a residency training program in general surgery at Boston University/ Boston City Hospital. He took time away from the clinic to pursue a two year fellowship in surgical basic science at Massachusetts General Hospital/Harvard Medical School. He completed his plastic surgery residency at Harvard Medical School. He then joined the plastic surgery faculty at the University of Pittsburgh. In addition to his active clinical program, Dr. Rubin directs a basic science research program in the biology of adipose derived stem cells and serves as co-director of the Adipose Stem Cell Center at the University of Pittsburgh. He is the principal investigator in an NIH funded line of research aimed at developing cell based methods for clinical soft tissue reconstruction after cancer therapy. He directs a related line of research aimed at soft tissue reconstruction for injured military personnel, funded by Department of Defense. To facilitate the rapid translation of new technology, he founded the Center for Innovation in Restorative Medicine at the University of Pittsburgh. This "clinical accelerator" has a staff of experts in regulatory affairs, clinical trials implementation, and preclinical testing and has successfully taken new therapies through the IND and IDE process.

His many scientific leadership positions include current Co-Chair of the American Society of Plastic Surgeons (ASPS) Task Force on Regenerative Medicine, past president of the International Society of Adipose Therapeutics and Science (IFATS), past Board Chair of IFATS, and past Chairman of the Plastic Surgery Research Council. Dr. Rubin is the recipient of a Presidential Early Career Award for Scientists and Engineers (PECASE). The Presidential Award is the highest honor bestowed by the United States government on outstanding scientists and engineers early in their research careers. It is intended to recognize some of the finest scientists who show exceptional potential for leadership at the frontiers of scientific knowledge during the twenty-first century. He has served as editor for four textbooks, published over 100 peer reviewed articles, and presented over 300 invited lectures.

JOHN SHERO, M.D.

EXECUTIVE DIRECTOR, EXTREMITY TRAUMA
AND AMPUTATION
CENTER FOR EXCELLENT

Mr. John C. Shero serves as the first Director of the Department of Defense and Veterans Affairs (DoD-VA) Extremity Trauma and Amputation Center of Excellence (EACE), an executive agency aligned under the United States Army Surgeon General, since November of 2011.

He enjoyed a number of interesting and challenging command and staff assignments during his 26 years of military service, from medical platoon leader in an Infantry Battalion to his final job in the Army as the Chief of Staff and Deputy Commander for Administration, at Brooke Army Medical Center, the Army's largest medical center.

ALEXANDER Y. SHIN, M.D.

CONSULTANT, DEPARTMENT OF ORTHOPEDIC SURGERY,
DIVISION OF HAND SURGERY
DIRECTOR, HAND SURGERY FELLOWSHIP PROGRAM,
DIVISION OF HAND SURGERY, DEPARTMENT OF ORTHOPAEDIC SURGERY, MAYO CLINIC

Born to Korean Immigrant parents, Dr Shin grew up in rural Pennsylvania. His undergraduate studies were at Cornell University, followed by medical school at the University of Pennsylvania, the Oldest Medical School in the United States. After completing his internship and orthopedic residency at the Naval Medical Center San Diego, he pursued a hand and microvascular surgery fellowship at the Mayo Clinic. He returned to the United States Navy and headed the Hand Division until 2001. He then returned to Mayo Clinic to join the Orthopedic Hand Division.

Currently, Dr Shin is a Professor of Orthopedic Surgery and the Director of the Hand Surgery Fellowship Program. Academically, he is an author of 212 peer reviewed journal articles and over 50 book chapters. He has been awarded multiple basic research grants evaluating nerve regeneration. Dr Shin is an active member American Society for Surgery of the Hand and is currently their Director of Education overseeing the annual meeting, courses and publications programs.

JAMIE SHORES, M.D.

CLINICAL DIRECTOR OF HAND TRANSPLANTATION
JOHN HOPKINS UNIVERSITY

Dr. Jaimie Shores is a founding member of the Johns Hopkins University School of Medicine Hand Transplant Program, serving as clinical director of hand transplantation. Before his appointment at Johns Hopkins, Dr. Shores was a core member of the University of Pittsburgh Hand Transplant Program and co-investigator on the IRB-approved clinical study using a novel immunomodulation protocol for hand allotransplantation, which resulted in the first bilateral hand transplant and the first arm transplant in the United States, and the most hands transplanted in the country.

In addition to hand transplantation, Dr. Shores performs general plastic and reconstructive surgery and specializes in microsurgery and surgery of the hand and upper extremity. With his combined orthopedic and plastic surgery hand and upper extremity fellowship training, he is an expert on fractures of the forearm, wrist, and hand, as well as vascular, tendon and nerve injuries and conditions. He also sees general hand surgery conditions such as carpel tunnel syndrome, trigger finger and arthritis.

Dr. Shores also has a Certificate of Added Qualifications (CAQ) in the Subspecialty of Surgery of the Hand.

MARIA SIEMINOW, M.D., PhD, DSc
DIRECTOR, PLASTIC SURGERY RESEARCH
HEAD, MICROVASCULAR TRAINING
CLEVELAND CLINIC

Dr Siemionow is a Professor of Surgery, the Director of Plastic Surgery Research, and Head of Microsurgery Training in the Department of Plastic Surgery at Cleveland Clinic.

Her research interest over the past 20 years has been devoted to development of the field of Composite Tissue Allotransplantation (CTA) and tolerance inducing strategies. She pioneered the preclinical and clinical protocols for face transplantation and received the world's first IRB approval in 2004. In December 2008, she was the lead surgeon of the first near-total face transplantation performed in the United States. She is the Founder and Chief Medical Officer of Tolera Therapeutics, a Cleveland Clinic spin-off company testing TOL-101 antibody in a clinical trial in kidney transplant patients, and additionally, holds 8 patents in the fields of transplantation tolerance and peripheral nerve research. She has published over 300 scientific articles and book chapters, and has received multiple awards including the Folkert Belzer Award for Distinguished Research, in 2001, and the American Association of Plastic Surgeons' James Barrett Brown Award, in 2004 and 2007, for her pioneering work in face transplantation. She has also been the recipient of the American Association of Plastic Surgeons' 2010 Clinical Researcher of the Year Award, the Plastic Surgery Education Foundation's 2010 Outstanding Achievement in Clinical Research Award, and the American Society of Maxillofacial Surgeons' Best Clinical Paper Award in 2011 and 2012. She is an active member of the American Society of Plastic Surgeons, The Transplantation Society, the American Society of Transplantation, and is the past President of the International Hand and Composite Tissue Allotransplantation Society, as well as the American Society for Peripheral Nerve. In November 2012, she began a 2-year term as the President of the American Society of Reconstructive Transplantation (ASRT).

KIMBERLY SINGER
OCCUPATIONAL THERAPIST
NAVAL MEDICAL CENTER SAN DIEGO

Kimberly Singer MS, OTRL is a staff occupational therapist at Naval Medical Center San Diego with the Comprehensive Combat and Complex Casualty Care program. Ms. Singer's clinical practice primarily focuses on evaluation and treatment of upper extremity musculoskeletal conditions and polytrauma.

MAYER TENENHAUS, MD, FACS

CLINICAL PROFESSOR, DIVISION OF PLASTIC SURGERY
UNIVERSITY OF CALIFORNIA, SAN DIEGO

Mayer Tenenhaus, M.D., FACS, is a Clinical Professor in the UCSD Division of Plastic Surgery. He is particularly known for his novel development of the treatment and reconstruction of burn deformities. During the last few years of his clinical practice he continues to be focused on caring for burn and trauma reconstruction patients.

Dr. Tenenhaus received his medical degree from the Sackler School of Medicine, New York, NY, and completed a two-year burn and critical care fellowship at UCSD prior to his plastic surgery residency at Nassau County Medical Center in New York. Dr. Tenenhaus has been a member of the UCSD Plastic Surgery Faculty since the completion of his plastic surgery residency in 1997. He is board certified in both General Surgery and Plastic Surgery.

Dr. Tenenhaus' research focus is directly associated with his clinical activity and is predominantly of the translational type. In addition to providing care in the most complex burn cases, he is also a clinical innovator, developing or bringing new techniques and/or technologies to our Medical Center.

Dr. Tenenhaus is on the editorial board of many peer reviewed journals and reviews for the Journal of Burn Care and Research, recognized as the most esteemed journal in this subspecialty. Additionally, he is a member of a multinational advisory board on wound bed preparation and debridement, a position which has led to many lecture invitations for international burn and wound conferences.

A member of many professional and international societies, he has both chaired and paneled the Burn Reconstruction Sessions at the American Burn Association annual meetings, a major national and international forum. This activity has developed new standards of care for the reconstruction of burn survivors.

Dr. Tenenhaus is the recipient of numerous awards and honorariums and serves on many internal committees contributing to the growth of the division of plastic surgery.

NATHAN UEBELHOER, M.D.

STAFF, DEPARTMENT OF DERMATOLOGY
NAVAL MEDICAL CENTER SAN DIEGO

Nathan Uebelhoer, CDR (Ret.), M.C., USN, completed his dermatologic residency training at the Naval Medical Center San Diego (NMCSD) and his fellowship training in Laser and Cosmetic Surgery at SkinCare Physicians of Chestnut Hill.

He has been a member of the teaching staff at NMCSD since 2005 and is currently serving as the head of the Dermatologic Surgery division within the department of dermatology. He has authored numerous peer-reviewed articles and book chapters and was the guest editor for Seminars in Cutneous Surgery's "Update on Lasers." His current research interests are in laser scar revision, photodynamic therapy, cutaneous vascular laser surgery, and hyperhidrosis.

VU QUANG VINH, M.D, PhD

NATIONAL INSTITUTE OF BURN,
DEPARTMENT OF PLASTIC AND RECONSTRUCTIVE SURGERY

CAPT Vu Quang Vinh is senior surgeon and vice head of Department of Plastic and Reconstructive, Aesthetic Surgery at Vietnam National Institute Of Burn since 2007. He has been completing his Plastic Surgery training at Hanoi Medical University. He has to learn PhD student in Nippon Medical School Japan (Sponsor by a famous Professor Hiko Hyakusoku) from 2001 to 2006. At Nippon Medical School he has learned about microsurgery, burn reconstructive surgery and also aesthetic surgery. Now, he is Associate Professor and Vice president of Vietnam Association Of Plastic and Reconstructive Surgery.

JILL WAIBEL, M.D.

Dr. Waibel practices as a board certified dermatologist specializing in cutaneous laser surgery and the dermatologic care of patients. She is currently the medical director and owner in private practice in Miami, Florida. The treatment of scars, especially burn scars, by applying today's latest cutaneous laser technologies is one of Dr. Waibel's primary passions. She has successfully developed industry leading procedures and techniques for treating the scars of burn survivors. These innovative laser treatments benefit both medical and cosmetic outcomes.

Dr. Waibel's undergraduate degree is from Indiana University. She completed medical school and her dermatology residency at the Wright State School of Medicine where she graduated Alpha Omega Alpha medical honor society at the top of her class. Dr. Waibel completed three dermatologic laser surgery preceptorships that laid the fundamental groundwork for her laser surgery practice. Dr. Waibel is a board certified dermatologist, and serves as a Clinical Voluntary Professor at University of Miami and Clinical Assistant Professor of Dermatology for Wright State University. She is the Dermatology Subsection Chief in the Department of Medicine at Baptist Hospital. She is a Fellow in the American Academy of Dermatology, and a diplomat of the American Board of Dermatology. Dr. Waibel is also a member of several professional organizations - the American Society for Dermatologic Surgery, American Society for Laser Medicine and Surgery, the Women's Dermatologic Society and the American Medical Association. She also served as a Vice- Chairman for the Dermatology Foundation and a Florida Medical Association Delegate.

Dr. Waibel's research has been published in many peer-reviewed journals and textbooks. Over the past five years Dr. Waibel has lectured at numerous laser surgery and dermatology meetings and workshops both nationally & around the globe. Dr. Waibel is currently involved in clinical trials for the improvement of general, cosmetic and laser dermatology. Dr. Waibel has been the primary investigator in studying the use of lasers and burn patients. She works with a team at the University of Miami and has developed patents related to laser and stem cells.

In addition to her private practice, Dr. Waibel serves as a consulting dermatologist in support of advancing new laser surgery developments and industry direction. Dr. Waibel makes her home in South Florida with her husband and three daughters.

CDR DOUGLAS WINSTANLEY, D.O.

PROCEDURAL DERMATOLOGY DIVISION HEAD /STAFF MOHS AND LASER SURGEON
NAVAL MEDICAL CENTER SAN DIEGO

CDR Douglas Winstanley, D.O., is the Head of Procedural Dermatology at Naval Medical Center San Diego. He completed his undergraduate degree at the University of Michigan in 1995 and received his medical degree from Midwestern University-Chicago College of Osteopathic Medicine in 2000. After completing a transitional internship at Naval Medical Center San Diego in 2001, he attended flight surgery training in Pensacola, FL. CDR Winstanley was then assigned to Naval Hospital Roosevelt Roads in Ceiba, Puerto Rico where he served as director of Aviation Medicine and as the flight surgeon for the Army's 160th Special Operations Aviation Regiment, Delta Company from 2002-2004. Upon the closure of the base in Puerto Rico, CDR Winstanley was reassigned to NAS North Island, where he served as the flight surgeon for HSL-41 and HSL-49. Following his operational tours, he completed his residency in dermatology at Naval Medical Center San Diego in 2009. He continued as a teaching dermatology staff member at NMC San Diego until 2010. He was then deployed to Afghanistan in support of the Army for Operation Enduring Freedom, where he served as the medical officer in charge for the 129th CSSB at Camp Leatherneck, Helmand Province. Upon his return, CDR Winstanley completed a fellowship in Procedural Dermatology at Scripps Clinic in La Jolla, CA. He rejoined the teaching faculty at Naval Medical Center San Diego in 2012 and holds an appointment as Assistant Professor of Dermatology at the Uniformed Services University of Health Sciences. CDR Winstanley works closely with his colleagues to provide care for our wounded warriors. He is currently involved in several research protocols and has authored multiple publications and textbook chapters.

BRIAN A. ZALEWSKI, C.P.

HEAD, PROSTHETIST
NAVAL MEDICAL CENTER SAN DIEGO

Brian Zalewski is currently the Head Prosthetist at the Naval Medical Center San Diego. He obtained a Bachelor's degree (BA) in Zoology from Miami University in 2003 and his Prosthetics Certificate (CP) from California State Dominguez Hills in 2005. He is board certified with the American Board for Certification in Prosthetics and Orthotics (ABC). He completed his residency at the Long Beach VA Hospital in 2006, with a rotation at Shriners Children's Hospital of Los Angeles. He spent the next two years practicing at the University Of New Mexico Carrie Tingley Hospital. As the state's only Level One Trauma Center, he worked with both children and adults. He joined the Naval Medical Center Comprehensive Combat & Complex Casualty Care program in 2008 shortly after it opened. He specializes in recreational prosthetics, specifically running, snowboarding, and surfing, which has led to his involvement in many Disabled Sports USA (DSUSA) and Operation Amp'd sport camps.

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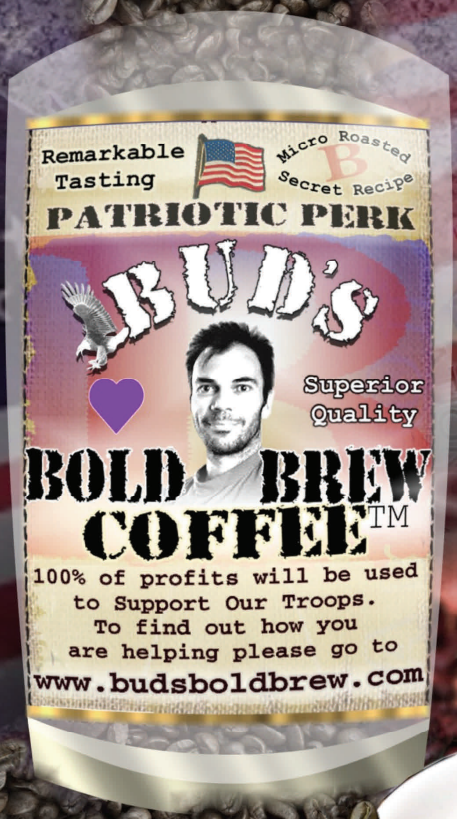

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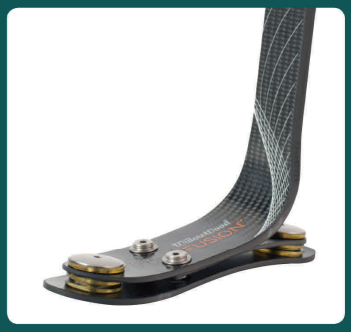

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